

TLP STEPS

- Receive the Mission
- 2. Issue a Warning Order
- 3. Make a Tentative Plan
- 4. Initiate Movement
- 5. Conduct Reconnaissance
- 6. Complete the Plan
- 7. Issue the Operations Order
- 8. Supervise/Inspect/Rehearse

ESTIMATE OF THE SITUATION

METT-TC

Mission Enemy

Mission Analysis

- Mission and intent of commander two levels up
 - Mission and intent of immediate commander

Ferrain - OAKOC

Troops

Time Available

Civilians

- Assigned Task's
- Mission essential task's
- · Constraints and Limitations
- · Restated Mission
- · Tentative time schedule

Develop Course of Action

· Terrain and Weather

Observations and Fields

OAKOC

Avenues of Approach

Key Terrain Obstacles

- · Enemy situation and most probable
 - course of action Friendly situation

Analyze Course of Action

Compare Course of Action Decision

Cover and Concealment

Reconnaissance is conducted based on the tentative plan. Information situation. It can cause a change of plan or even a change of mission. discovered during recon is plugged back in to the estimate of the

MDMP	COMPONENT STEPS	PRODUCTS
Receive the Mission (Step 1)	None	None
Mission Analysis (Step 2)	 Analyze higher order (clarify, teach, learn) IPB Define the battlefield (AO) Describe the battlefield effects	1. Threat situation template 2. Event template 3. MCOO 4. Restated mission 5. CDR's intent (purpose, key tasks, end state-terrain/friendly/enemy) 6. CDR's guidance • Friendly/enemy COAs • CCIR • Recon guidance • Deception • CS/CSS priorities • Risk • Time line • Type order/rehearsal

PRODUCTS	 7. Warning order • Mission, intent, CCIR • Timeline & priorities • Mvt, OPORD, Rehearsal • Overlay
COMPONENT STEPS	7. Conduct risk assessment Tactical-enemy action/lost opportunity Accidental-tng status/equip readiness 8. Determine initial CCIR (PIR, EEFI, FFIR) 9. Prepare initial recon plan (know it, be part of it, use it) 10. Plan use of available time (briefing & rehearsals) 11. Develop the restated mission 12. Mission analysis briefing 13. Restated mission approval 14. CDR's initial intent 15. CDR issues guidance 16. Issue warning order 17. Review facts and assumptions
MDMP	Mission Analysis (Step 2)

MDMP	COMPONENT STEPS	PRODUCTS
COA Development (Step 3)	1. Analyze relative combat power • Tangible - personnel - weapons • Intangible - leadership - disposition - will to fight 2. Generate options • Suitable - it defeats enemy COA • Feasible - we can do it with time, resources, and space • Acceptable - worth the cost in manpower and equipment • Distinguishable - one of following - reserve - task organization - main effort - scheme of maneuver • Complete - mission statement 3. Array forces	1. COA statements & sketches stetches • Purpose • Scheme of maneuver • Decision point • Task and purpose of ME • Task and purpose of SE's • Task and purpose of reserve • Risk • End state All built into the battlefield framework • Deep/R&S/MBA/reserve/rear • Responsibilities/graphics COA at decisive point

MDMP	COMPONENT STEPS	PRODUCTS
COA Development (Step 3)	 4. Develop scheme of maneuver Purpose Critical events - decision point Task and purpose of ME directly related to mission Task and purpose of SE's directly related to main effort Risk Task and purpose of reserve BOS integration & priorities Deep/close/rear ops Deep/close/rear ops Responsibilities/graphics Assign headquarters Prepare COA statement & sketch 	
COA Analysis (Step 4)	 Gather tools List friendly forces Assumptions Critical events & decisive points 	 Redefined/detailed COA & synch matrix Location & timing of combat power at decisive point
	_	

 3. Detailed combat, CS, CSS task org. 4. Redefined event temp 5. CCIR and collection plan (NAI, TAI) 6. Concept for fires, engineer operations, etc. 7. Subordinate tasks 8. Deception 9. Risk 	 Complete staff estimates 	 Approved/refined COA CDR's guidance Warning order 	1. OPORD
 Evaluation criteria and weight (Mnvr, Fires, ADA, C2, CSS, M/S) Select wargame technique Avenue in depth Belt(preferred method) Box (least time required) Select method to record Sketch note Synchronization matrix Wargame and assess results 	 Develop matrix using evaluation criteria Weigh criteria Evaluate strengths and weaknesses of each COA Consider estimates from entire staff 	None	None
COA Analysis (continued) "WARGAME"	COA Comparison (Step 5)	COA Approval (Step 6)	Produce orders (Step 7)
	5. Evaluation criteria and weight (Mnvr, Fires, ADA, C2, CSS, M/S) 6. Select wargame technique • Avenue in depth • Belt(preferred method) • Box (least time required) 7. Select method to record • Sketch note • Synchronization matrix 8. Wargame and assess results	 Evaluation criteria and weight (Mnvr, Fires, ADA, C2, CSS, M/S) Select wargame technique Avenue in depth Belt(preferred method) Box (least time required) T. Select method to record Sketch note Synchronization matrix Wargame and assess results Develop matrix using evaluation criteria Weigh criteria Weigh criteria Weigh criteria Evaluate strengths and weaknesses of each COA Consider estimates from entire staff 	 Evaluation criteria and weight (Mnvr, Fires, ADA, C2, CSS, M/S) Select wargame technique Avenue in depth Belt(preferred method) Box (least time required) Select method to record Sketch note Synchronization matrix Wargame and assess results Develop matrix using evaluation criteria Weigh criteria Weigh criteria Evaluate strengths and weaknesses of each COA Consider estimates from entire staff None

WARNING ORDER NO. 1. SITUATION Brief description:

2. MISSION Use the restated mission from the mission analysis.

GENERAL INSTRUCTIONS a. Chain of Command (call out by name)

- Special teams or task organization within platoon or squad. (Try not to violate unit integrity.)
- c. Uniform and equipment common to all (changes from SOP: e.g., drop rucks, drop or pick up helmets).
- (different from SOP);e.g., d. Special weapons, ammunition, or equipment mines, satchel charges, grapnel hooks, NVG's.
- Tentative time schedule. This is formed on the basis of mission analysis. e. Tentativ includes at least:
 - - (1) Earliest time to move. (2) Time and place of OPORD and who will attend.
- (3) Probable execution time.
- (4) Inspection times (SOP).

- (5) Rehearsal time and actions to be rehearsed; e.g., actions on the objective, special teams for bridge, searches, EPW's, or other actions as time allows.

4.

f. Additional general instructions as needed or by SOP

- SPECIAL INSTRUCTIONS
 a. To subordinate leaders:
 (1) Platoon sergeant.
- (2) Squad leader.
- (3) RATELO. (4) Medic.
- (5) Forward Observer.
- (6) Attachments.

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- To persons helping in preparation of OPORD (SOP).
- þ.

As needed or by SOP.

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OPERATIONS ORDER NO

REFERENCES: List any maps or documents needed to understand the order or that were used in the preparation of the order. TIME ZONE USED THROUGHOUT THE ORDER:

TASK ORGANIZATION:

- 1. SITUATION
- (1) Situation (enemy, weather, and terrain)

Enemy Forces

- Capabilities
- (3) Probable course of action

 - b. Friendly Forces
- Mission of unit providing your support (1) Mission of your parent unit <u>(2</u>
- (3) Mission and/or route of adjacent units that may affect your
 - operation
- Attachments and detachments 2. MISSION

Who, what, when, where (coordinates), and why **EXECUTION**

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- b. Concept of operation. The overall plan (scheme of Commanders intent. How commander views the upcoming operations.
 - unit and plan for fire support (refer to annex). Subunit missions. For sections, teams, and individuals. Coordinating instructions. maneuver) for the
- (1) Time schedule
- Formations and order of movement
 - Route (primary and alternate)
- Movement within friendly front lines 0.040
- Rally points and actions at rally points
- Actions on enemy contact, at danger areas, and at the objective 9
 - (7) Nuclear, biological, chemical (NBC) safety instructions and n-oriented protection posture (MOPP) level. mission-
 - (8) Priority intelligence requirements (PIR)

- (9) Fire Support (if not already discussed)
 - (10) Rehearsal and inspections
- Debriefing (includes essential elements of information (EEI), intelligence requirements
- (12) Coordination with other units (forward, friendly, aviation) time, and place. (OIR)

other

- (13) Annexes (other actions may be covered separately)
- SERVICE SUPPORT
 - a. Supply

4.

- (1) Rations, Uniforms
- (2) Arms and ammunition
 - (3) Captured material
- Transportation, resupply, cache points, maintenance Þ. Ċ.
 - Medical evacuation
 - Prisoners of war Personnel ö ø
- COMMAND AND SIGNAL

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- (1) Commander/leader location, CP location

a. Command

- (2) Chain of command
 - Signal <u>.</u>
- (2) Pyrotechnics and signals (including hand/armsignals) (1) Frequencies and call signs
 - (3) Challenges and Passwords, number counts

 - (4) Code words

(5) Near/Far recognition signals

NOTE:

- 1. The OPORD heading items may be omitted depending on the situation
- Details under subparagraphs should be tailored to provide all relevant and essential information
- Items covered by standing operating procedures (SOP's) need not be covered in the OPORD

UNLIKELY Medium Γow Ρo Š ш SELDOM Medium മ High Ρo Š ⋖ m OCCASIONAL 0 Medium High High Š C ~ Δ Δ LIKELY Medium Extremely High Low $\mathbf{\omega}$ High 2 4 N FREQUENT Extremely Extremely Medium 4 High High High I ⋖ ≥ Ξ CATASTROPHIC **NEGLIGIBLE** MODERATE CRITICAL (J) Я 3 3 4

High - Significantly degrades ability to accomplish mission mission capability Extremely High

Medium - Degrades mission

Loss of

RISK LEVELS

Low - Little or no impact on

capability.

mission capability.

APPROVING AUTHORITY

Medium = Bn Commander

Low = Co Commander

I/A = Extremely High
II/B = High

EXAMPLES

III/C = Medium

IV/D = Low

High = Bde Commander

Extremely High = CG

SEVERITY

- CATASTROPHIC Death or permanent disability, system loss, major property damage.
- CR/TICAL Permanent partial disability, temporary total disability, major system damage, major property damage. MODERATE Minor injury, lost workdays, compensable injury/illness, minor system damage, minor property damage.
 - NEGLIGIBLE First aid or minor supportive medical treatment, minor system impairment.

- PROBABILITY

 A. FREQUENT Occurs often, resources continuously exposed.
- LIKELY Occurs frequently, resources are exposed frequently and/or several times
 - OCCASIONAL Occurs sometimes, resources are exposed sporadically SELDOM Remote occurrence, resources are possibly exposed. UNLIKELY Rare occurrence of exposure. o.

-140 -145 -133 ဖု 9--95 Exposed flesh may freeze within 30 sec. -110 -118 -125 -129 -132 66--20 -83 -57 z -116 -104 -109 4 4 -47 -70 85 96-Ω ⋖ -100 TEMPERATURE 88 86-98 9 9 -58 -82 α -26 -58 -82 -46 -74 -79 -85 -67 α * Winds greater than 40 MPH have little additional effect. Exposed flesh may freeze within 1 min. -15 -29 -10 -19 -45 53 ည -33 -67 69 Ш Σ -32 -39 4 48 -51 53 <u>5</u> 0 0 0 ιŅ Σ EQUIVALENT -18 -29 -35 -25 -33 -37 α 10 ဝှ ဖ I -15 -10 -18 -20 16 20 ٠Ş 4 <5 hrs with dry skin 8 8 27 6 4 0 ⋖ \supset 16 4 4 28 22 9 37 ပ 20 20 8 4 ဗ္တ ജ 28 32 28 27 9 15 20 25 30 35 4 ESTIMATED WIND SPEED (MPH)

FIELD UNIFORM	PT UNIFORM	OFF DUTY ACTIVITIES	OTHER FACTORS
Poly Pro (T&B), ECWS (T&B)**, Balaclava, Trigger Finger Mittens, Gone-Tex Boots*	PFU, Sweats, Black Knit Cap, Black Coat, Hat, Ear Protection, Gloves, Gloves winserts Boots	Coat, Hat, Ear Protection, Gloves, Boots	Increase leader surveillance, No facial camouflage, Increase hydration, Provide warm-up areas with hot drinks, etc. Skin covered and dry.
oat & Trouser Liners, salaclava/Pile Cap, oots ECW (Type I)	PFU, Sweats, Poly Pro (T&B), Balaclava, Trigger Finger Mittens	Coat, Hat, Ear Protection, Gloves, Boots	Restrict non-essential outdoor training, Low activity: 30-40 min work cycle, Sedentary Activity: 15-20 min work cycle, Use buddy system, No exposed skin.
Poly Pro (T&B), Coat & Trouser Liners, ECWS (T&B)**, Balaclava/Pile Cap, ECWS (Mittens, Boots ECW, (Tyne II)	PFU, Sweats, Poly Pro (T&B), Balaclava, Trigger Finger Mittens	Heavy Coat, Long Underwear, Hat, Scarf, Mittens, Cold Weather Boots	Consider indoor training, High intensity activity <15 min work cycle, Consider canceling low or sedentary activity outdoor training cover all exposed skin

MEDEVAC Request

(HIGHER), this is		
MEDEVAC request, over.		
1. Location:	over. (8 digit grid)	
2. Radio Frequency, call sign, suffix of the radio the SOI)		
(Location and radio frequency must be encrypted	1)	
3. Precedence:		
Urgent(A)	ASAP no more than 2 hrs.	
Priority(C)	no more than 4 hrs.	
Routine(D)	within the next 24 hrs.	
4. Special Equipment (A-None, B-Hoist, C-Extraction equip, D-Ventilator) over.		
Number of patients by type: Litter(L#)		
Ambulatory(A#))	
6. Security of the pick-up site (enemy situation)	over.	
N-No enemy, P-Possible enemy (caution), E-Ene X- Enemy troops in area (Armed escort)	nny troops in area (caution),	
7. Method of marking pick-up site	over.	
(A-Panels, B-Pyro, C-Smoke,D-None, E-Other))	
8. Patient nationality and status (US/military or civilian EPW)		
A- US Military, B-US Civilian, C-Non-US Milit EPW	ary, D- Non-US Civilian, E-	
9. NBC Contamination	over.	
(N-Nuclear, B-Biological, C-Chemical) 'Remembe to put the outside of individuals first beautic between an would be written 31. Years than appropriate on patient approximation and a mediantal of a cash had The first had a the rotated of	great, say break to between The	

CALL FOR FIRE

A. **GENERAL**: This card provides for a general format for a call for fire from an artillery unit or higher headquarters..

B. OVERVIEW

- 1. Standards for general grid missions.
- 2. Format for a grid call for fire

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·			-	

This is	adjust fire (k)
Response from unit	
Target Location is/Grid _	(six digit grid)(k)
Response from unit	
	(Target description)(k)
Response from unit	
	(direction from you to the target) (k
Response from unit	

Say Back Message to Observer

From unit- Shot Over

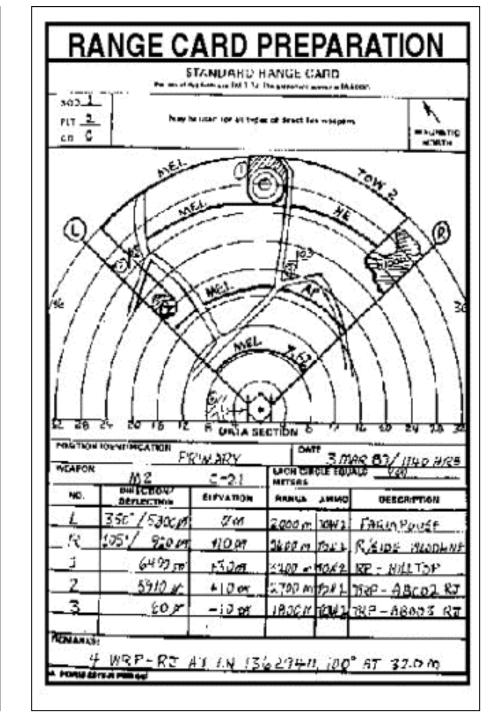
Your response Shot out

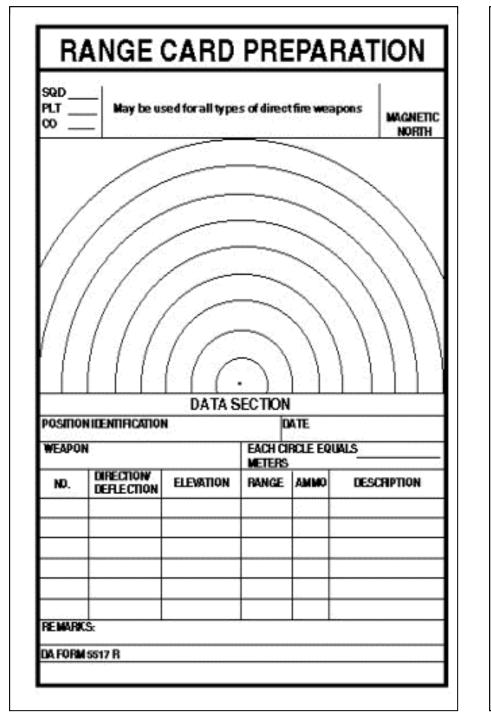
From unit - Splash over (5 second delay before round impacts)

Your response- Splash out.

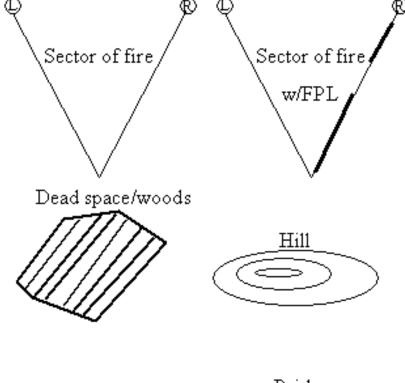
Locate impact of the rounds and give corrections.

After Fire for Effect has been called, You need to call in End of Mission and give a spot report on the Battle Damage Assessment.





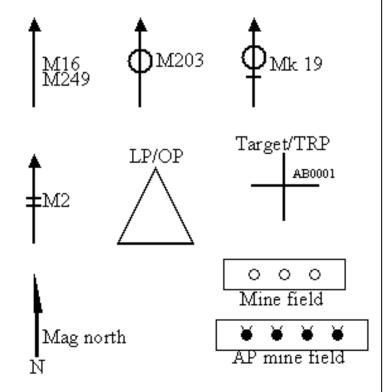
SYMBOLOGY FOR RANGE CARDS AND SECTOR SKETCHES

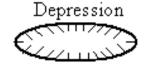


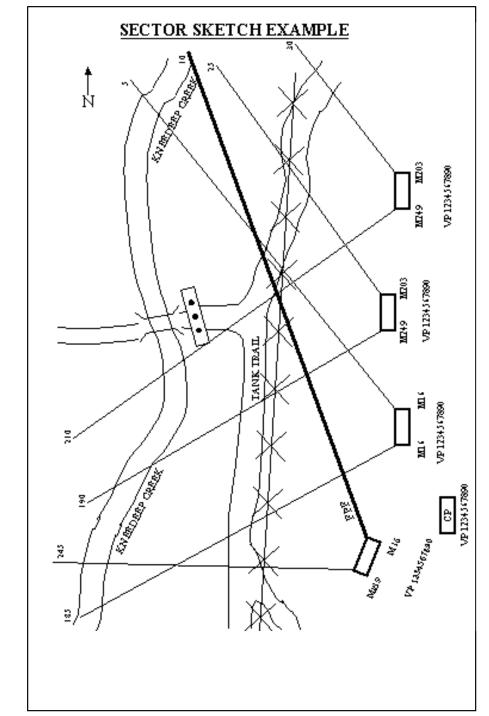
Fighting Position

Bridge

SYMBOLOGY FOR RANGE CARDS AND SECTOR SKETCHES







Small Arms Weapon Ranges

TYPE	MAX EFF RANGE (m)
M16A2	580 (pt) 800 (area) 200 (mov)
M203	150 (pt) 350 (area)
M249	600 (pt) 800 (area)
M136 (AT4)	300
M47 (Drago	n)1,000 (sta) 100 (mov)
MK19	1,500 (pt) 2,212 (area)
M60 MG	1,100 (600 grazing)
	MG1,800 (1,000 grazing)
TOW	3,000 (plng purposes)
TOW 2	3,750
105-mm	11,500
105-mm Ta	nk*2 to 2.5 km
120-mm Ta	nk*2 to 2.5 km
25-mm BFV	[′] 2,200
155-mm M1	09A318,100
8-in Howitze	er22,900

Optimum engagement ranges

RNRMY/THREAT

	1100EXI
TYPE WEAPON	RANGE (meters)
AK-74	500
BG-15	400
RPK-74	800
SVD	1300
PKM	1000
DShK	2000 ground /
	1000 air
AG S-17	1700 Indirect fre /
	700 Direct fire
RPG-7	300 Moving /
	500 Stationary
RPG-18	200
RPG-22	250

SOLDIER'S GUIDE TO COMBAT INTELLIGENCE

CHALLENGE AND PASSWORD

THE CHALLENGE AND PASSWORD IS USED TO IDENTIFY UNKNOWN PERSONNEL. THEY ARE CHANGED EVERY 24 HOURS AND SHOULD NOT BE USED OUTSIDE FRIENDLY AREAS.

Prope	er Procedure:
CHALLENGE	REPLY
HALT WHO IS THERE? ADVANCE (ONE)	(STRANGER HALTS) 'FRIENDLY PATROL'
TO BE RECOGNIZED HALT CHALLENGE - LOW	(STRANGER ADVANCES) (HALTS 2 OR 3 YARDS AWAY)
CHALLENGE - LOW CLEAR VOICE EXAMPLE: 'BOSTON' PASS	PASSWORD EXAMPLE 'BEANS' IDENTIFIED SOLDIER PASSES (He will identify each member of his patrol)

REMEMBER:

MEMORIZE CURRENT PASSWORDS AND COUNTER SIGNS.

HALT AND IDENTIFY PERSONNEL BEFORE THEY ARE CLOSE ENOUGH TO BE A THREAT.

KEEP THE INDIVIDUAL COVERED AND DO NOT EXPOSE YOURSELF.

SPEAK CLEARLY AND JUST LOUDLY ENOUGH TO BE HEARD.

DO NOT PERMIT PERSON TO PROCEED UNTIL PROPERLY IDENTIFIED.

GTA 30-1-23

Headquarters, Department of the Army Dated February 1977

SOLDIER'S GUIDE TO COMBAT INTELLIGENCE

COMMUNICATIONS SECURITY TIPS

COMSEC prevents the enemy from gaining useful information from communications. Everyone must practice COMSEC - MAKE IT A HABIT!

ALWAYS FOLLOW THESE RULES:

- USE WIRE INSTEAD OF RADIO IF POSSIBLE
- NEVER VIOLATE RADIO SILENCE
- MAKE TRANSMISSIONS BRIEF, NEVER MORE THAN ONE MINUTE OR LESS
- USE PROPER RADIO/TELEPHONE PROCEDURE
- USE MINIMUM POWER REQUIRED
- NEVER TRANSMIT CLASSIFIED INFORMATION IN THE CLEAR
- USE ONLY AUTHORIZED CODES
- USE AUTHENTICATION PROPERLY
- SITE TRANSMITTING ANTENNAS ON REVERSE SLOPE (AWAY FROM ENEMY)
- USE DUMMY ANTENNA TO TUNE OR TEST RADIO
- TRY TO WORK THROUGH JAMMING
- NEVER SAY ANYTHING OVER THE AIR ABOUT BEING JAMMED

SOLDIER'S GUIDE TO COMBAT INTELLIGENCE CAMOUFLAGE

(MEASURES TAKEN TO CONCEAL SELF AND EQUIPMENT FROM ENEMY OBSERVATION)

SOME COMBAT TESTED METHODS OF INDIVIDUAL CAMOUFLAGE:

DISGUISING THE HELMET - Use leaves or twigs to break up the shape. Wrap the helmet with burlap or smear it with mud.

CANVAS EQUIPMENT - Darken faded web equipment with paint, mud, or charcoal.

SKIN -The face, neck and hands should be toned down with camouflage face paint, mud or burnt cork.

WEAPONS TONEDOWN -Wrap with strips of burlap or dyed cloth. Cover shiny parts with cloth, paint or mud.

SHINY OBJECTS -Windshields, mess kits, and all bright objects reflect light and must be concealed.

CAMOUFLAGE DISCIPLINE - Make things look like they belong - not out of place. Conceal tracks; keep boxes, cans and other litter picked up. Check your camouflage from the enemy standpoint.

NOISE AND LIGHT DISCIPLINE

Noise, such as talking, can be picked up by enemy patrols or listening posts. At night time, a lighted match or cigarette can be seen for a great distance. Deny the enemy information.

NOISE DISCIPLINE -

Use hand and arm signals - Do not talk or whisper.

Tape all items that may rattle.

Start all vehicle-generator engines at the same time.

Move vehicles only when necessary.

Use telephones in place of radios.

LIGHT DISCIPLINE -

Use light filters on flashlights, or shield with poncho.

Use matches, lighters, and cigarettes only in light proof shelters.

Use vehicle blackout lights.

Turn off or adjust light to dimmest setting.

Light heating or cooking fires only in designated areas.

SOLDIER'S GUIDE TO COMBAT INTELLIGENCE

PATROL PLANNING STEPS

The Patrol Leader considers all steps and accomplishes those necessary. The order may vary.

- STUDY THE MISSION
- PLAN USE OF TIME
- STUDY TERRAIN AND SITUATION
- ORGANIZE THE PATROL
- SELECT MEN, WEAPONS, EQUIPMENT
- ISSUE WARNING ORDER
- COORDINATE
- MAKE RECONNAISSANCE
- COMPLETE DETAILED PLANS
- ISSUE ORDER
- SUPERVISE, INSPECT, REHEARSE
- EXECUTE THE MISSION

PATROL REPORT

Patrols are debriefed at area at the time of return to the friendly area. The report should include the following items:

- SIZE AND COMPOSITION OF PATROL
- TASK
- TIME OF DEPARTURE
- TIME OF RETURN
- ROUTES (OUT AND BACK)
- TERRAIN
- ENEMY
- MAP CORRECTIONS
- MISCELLANEOUS INFORMATION
- RESULTS OF ENEMY ENCOUNTERS
- CONDITION OF PATROL (DISPOSITION OF DEAD/WOUNDED.)
- CONCLUSIONS AND RECOMMENDATIONS

SOLDIER'S GUIDE TO COMBAT INTELLIGENCE COVER AND CONCEALMENT

COVER - PROTECTION FROM ENEMY FIRE

Natural - Ravines, Trees, Rocks Man-Made - Foxholes, Trenches, Walls

CONCEALMENT - PROTECTION FROM ENEMY OBSERVATION

Natural - Bushes, Grass, Shadows Man-made - Burlap, Nets, Paint

Before the enemy can shoot you, he must know where you are. Concealment will help to keep him from spotting you. Cover will make it hard for him to hit you - with direct or indirect fire.

COVER AND CONCEALMENT GO TOGETHER

DO'S AND DON'TS:

- USE ALL COVER AND CONCEALMENT AVAILABLE
- MOVE ONLY WHEN NECESSARY--THEN CAREFULLY STAY LOW - PRONE IF POSSIBLE
- EXPOSE NOTHING THAT SHINES
- USE SHADOWS TO HELP YOU HIDE; BLEND WITH YOUR BACKGROUND
- DON'T SILHOUETTE YOURSELF AGAINST SKYLINES OR TOPS OF WALLS
- KEEP QUIET
- CHANGE OR DISGUISE THE SHAPE OF YOURSELF AND EQUIPMENT
- OBSERVE AND FIRE AROUND THE SIDE OF AN OBJECT
- AVOID OUTSTANDING LANDMARKS SUCH AS LONE TREES AND ROAD JUNCTIONS

SOLDIER'S GUIDE TO COMBAT INTELLIGENCE

OBSERVING AND REPORTING

THE COMBAT SOLDIER IS CLOSE TO THE ENEMY AND CAN OBSERVE HIM AND THE TERRAIN HE CONTROLS.

WHEN YOU OBSERVE LOOK FOR:

WHO (did you see?)
WHAT (was he doing?)
WHEN (did you see it?)
WHERE (did it happen?)

AND WHERE WERE YOU?

WHEN YOU REPORT, GIVE

S ize A ctivity

L ocation Key Word
U nit SALUTE

<u>T</u> ime

E quipment

HANDLING PRISONERS OF WAR

CAPTURED ENEMY EQUIPMENT/ DOCUMENTS

When you capture prisoners, remember the 5 S's

SEARCH - for weapons/documents immediately

SEGREGATE - into groups: Officers, NCO's, Privates, Deserters,

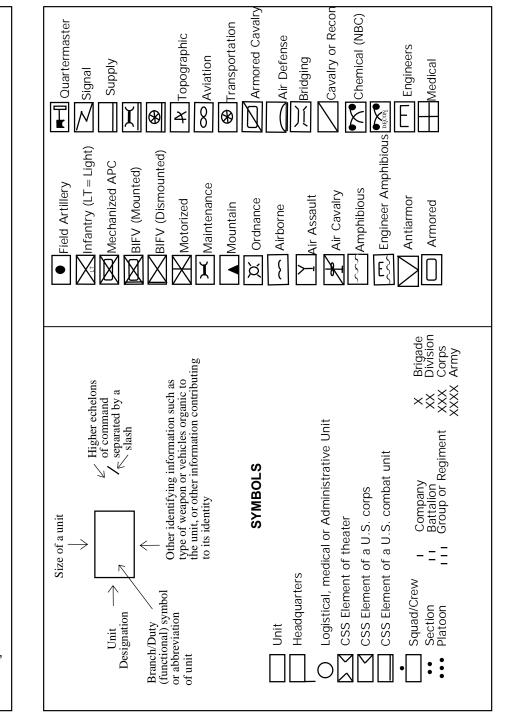
Civilians, Females, Line Crossers

SILENCE - Do not allow prisoners to talk to each other.

SPEED - Prisoners to the rear with personal items and documents.

SAFEGUARD - Prisoners, documents and materiel; Tag and evacuate to the rear.

PRISONERS AND/OR CAPTURED ENEMY DOCUMENTS AND EQUIPMENT SHOULD BE TAGGED. IF A CAPTURE TAG IS NOT AVAILABLE, ANY PIECE OF PAPER WILL DO. IT SHOULD INCLUDE DATE AND TIME CAPTURED, PLACE CAPTURED (COORDINATES), CAPTURING UNIT, AND CIRCUMSTANCES OF CAPTURE.



AIR DEFENSE WARNINGS

 Attack by hostile aircraft or missiles is This means that immediate vicinity of a respective area of operations with high probability of entry hostile aircraft or missiles are within a respective area of operations or in the imminent or in progress.

missiles is probable. This means that hostile WHITE - Attack by hostile aircraft or missiles aircraft or missiles suspected to be hostile. aircraft or missiles are en route towards a respective area of operations or unknown YELLOW - Attack by hostile aircraft or

s improbable.

WEAPONS CONTROL STATUS

FREE - Fire at any aircraft not positively dentified as friendly.

hostile according to the prevailing hostile TIGHT - Fire only at aircraft identified as criteria. HOLD - Do not fire except in self defense or in response to a formal order.

Construction & barrier materials (wood, wire) (TA50, tools, clothing) (vehicles, weapons) Materials to support Items of equipment Subsistence items Personal demand VIII Medical materials items (PX items) Repair parts and Major end items Petroleum, oils, and lubricants civil programs components Ammunition (MREs) CLASS ₹ 5 \succeq Ξ ≥ > = ×

With the M256A1 Kit (15 min)

- After checking with M256A1, results are negative. Check with M8 Detector Paper.
- Senior person selects one or two soldiers. Have them:
- **MOPP Level** * Move to a shady area.
 - * Unmask for five minutes.
 - * Clear and reseal masks.
- 5. If no symptoms appear, give all clear. Obseve them for 10 minutes.
 - 6. Watch for delayed symptoms.

- 7. Have self-aid available.
- Reference: FM 3-4/STP 21-24-SMCT

Withouth the M256A1 kit (35 min)

- Senior person selects one or two people. Check with M8 Detector Paper.
 Senior person selects one or two p
 Move to a shady place.
 Have soldiers:
- * Take a deep breath, hold it, and breaks seal. * Keep eyes open for 15 seconds.
- 5. Observe them for 10 minutes. If no symptoms-* Clear and reseal mask.
- * Reseal and clear their masks.

* Break seal on mask and take 2 or 3 breaths.

- 6. Observe them for 10 minutes.
- If no symptoms, unmask for 5 minutes and remask. 7. If no symptoms, unmask for 5 minutes and rem 8. If no symptoms after 10 minutes, give all clear.
- Watch for delayed symptoms. 10. Have first-aid available

NBC 1 (OBSERVER'S REPORT) **UNMASKING PROCEDURES**

Precedence:

MOPP Gear Exchange (Buddy Team)

2. Decontaminate hood and roll it. 1. Decontaminate individual gear.

4. Remove overboots and gloves.

Put on overgarments.

3. Remove overgarments.

6. Put on overboots and gloves.

7. Secure hood.

Flash(Initial), Immediate(Follow up) Classification

Line

Meaning

Direction of attack from observer Position of observer

CB О

Date-time start of attack

Repeats steps 2 through 7 for buddy.

9. Secure individual gear.

Reference: FM 3-5.

Date-time end of attack

Щ Ц

Location of area attack

Kind of attack

ŋ Ξ

Type of agent/persistency

Number of munitions or aircraft Remarks

ZB

Available: Within arm's

Ready: Must be

within 2 hrs. Second set

within 6 hrs.

available to the soldier

skin exposure to liquid or Mask-only: For soldiers protection from direct

Reference: FM 3-4. solid.

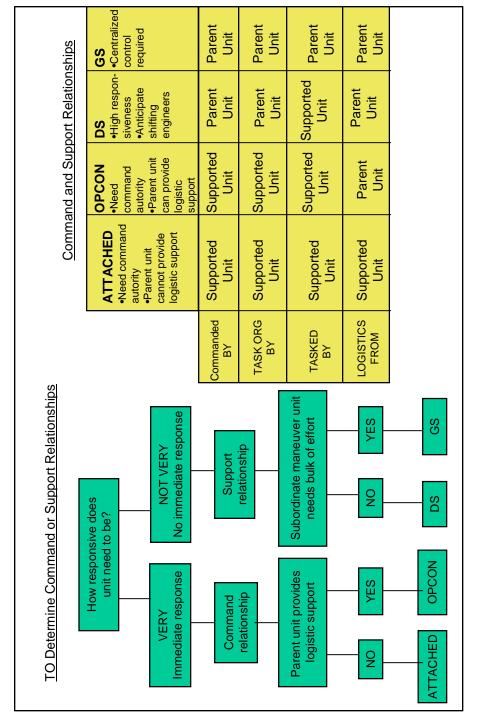
Worn

Available Available

Ready

cover

Worn Worn Worn Worn Worn 4 Available Available Available Available Worn Worn Worn က Worn Carried Worn Worn 0 Available Carried Worn $\overline{}$ Available Available Carried Zero Carried Ready Ready Ready Ready Equipment Overboots garments Helmet MOPP Gloves Mask Over-



QUESTIONS TO ASK OF YOUR SOLDIER WHILE INSPECTING/CHECKING THEM IN THE FIELD

FOR THE SOLDIER:

- 1. What is your mission?
- 2. What is the mission of your squad/platoon/company?
- 3. How do you build a fighting position?
- 4. Who is in the defensive position on your left/right?
- 5. What is your principle direction of fire/sector of fire?
- 6. Where is your right/left limit?
- 7. What is dead space?
- 8. Is there any dead space in your sector?
- 9. Have you walked your sector of fire to the max effective range of your weapons?
- 10. Have you walked the dead space?
- 11. What is the maximum effective range of the TOW? Javelin? M60? SAW? M203? M16?
- 12. Show me your range card/sector firing stakes?
- 13. Who is in your fire team/squad?
- 14. What is an FPF?
- 15. Do you have an FPF? What is the signal to fire it?
- 16. What is grazing fire?
- 17. If your buddy gets shot, what are the four life savings steps to help him?
- 18. Where is your protective mask? When do you put it on? When do you take it off?
- 19. What is atropine? When do you use it?
- 20. How do you protect yourself against a nuclear blast?
- 21. What is MOPP? What are the 4 levels?
- 22. What is the challenge and password for today?
- 23. Are there any OP's to your front? Who is manning it?
- 24. What are the signals to call in the LP/OP?
- 25. What is an alternate position? Show me yours.
- 26. What is a supplementary position? Show me yours.
- 27. What is the advantage of overhead cover? What is its standard thickness?
- 28. Where is your weapons cleaning equipment? Have you cleaned your weapon today?

QUESTIONS TO ASK OF YOUR SOLDIER WHILE INSPECTING/CHECKING THEM IN THE FIELD

FOR THE SOLDIER:

- 29. Did you shave and brush your teeth this morning?
- 30. What is stand-to? Did you stand-to this morning?
- 31. What do you do if you capture a POW?
- 32. What is SALUTE?
- 33. What will you do if you see enemy in your sector? How will you notify your chain of command?
- 34. What are your three general orders?
- 35. Do you have your "dog tags" around your neck?
- 36. Do you have mines or claymores in your sector?
- 37. When do you fire your claymores?
- 38. Is there a high speed avenue of approach in your sector?
- 39. What is the current enemy situation?
- 40. Where is your squad leader, platoon leader, and company CP?
- 41. Where do you sleep? Where does your buddy sleep?
- 42. What are your priorities of work?
- 43. Who is in charge if your TL/SL/PL is killed?
- 44. Is there anything you need to improve your position?
- 46. Is there a location nearby from which you could better defend?
- 47. Are any friendly elements to your front?
- 48. Is there a passage lane in your sector?
- 49. How much ammunition do you have? How will you get more?
- 50. Do you have dry socks? Have your checked your feet today?
- 51. Where is your medic?
- 52. Do you have a first aid dressing?
- 53. Can you survive a near hit by artillery?
- 54. What is the signal to move to alternate/supplementary positions?
- 55. When do you render a hand salute?
- 56. What should you do if you find unsecured classified material?
- 57. Who is your buddy?

Platoon Leader Duties

- 1. Welfare of the soldiers.
- 2. Platoon Leadership.
- 3. Field operations, mission support, Class I, III, V, maintenance, transportation, and medical support.
- 4. Accountability of platoon equipment (platoon hand receipts.)
- 5. Maintenance (Vehicle, Commo, Weapons, NBC, SKO's, NVD's)
- 6. Training, Planning/Resourcing/Scheduling, and conduct monthly platoon training meetings, maintenance and update training calendars.
- 7. Execute PSG/SQD leader duties as needed.
- 8. Counsel PSG, Squad Leaders, drivers and RTO after every field exercise and garrison monthly, in writing.
- 9. Conduct AAR's after each mission and field exercise and submit to unit commander.
- 10.Draw and account for all comsec material as needed.
- 11. Write and submit platoon awards as needed.
- 12. Act as unit commander as needed.
- 13. Support Single Soldier Programs.
- 14. Support Family Support Group. 15. Protect Family Time.

Platoon Sergeant Duties

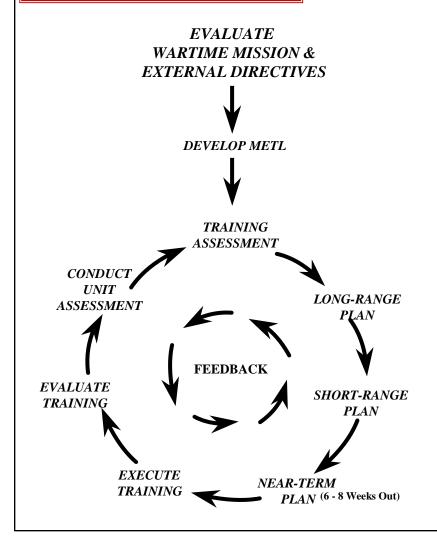
- 1. Welfare of the soldiers.
- 2. Platoon leadership.
- 3. Personnel accountability
- 4. Field operations, mission support, Class I, III, V, maintenance, transportation, and medical support.
- 5. Platoon's senior trainer, assist and evaluate squad training.
- 6. Platoon's physical fitness program. 7. Maintenance supervisor (PMCS)
- 8. Formations, inspection of soldiers, appearance.
- 9. Common areas, cleanness and appearance.
- 10.Garrison operations, detail support.
- 11. Administration of platoon paperwork.
- 12. Counseling packets-Monthly.
- 13. Weapons qualification.
- 14. Additional duties. 15.Promotions
- 16. Maintain Platoon Battle Roster.
- 17. Support Single Soldier programs.
- 18. Support Family Support Group 19. Protect Family Time.

Sources of Information

Leadership	FM 22-100
Counseling	FM 22-101
NCO Creed	FM 22-600-20
Drill and Ceremonies	FM 22-5
Individual Weapons	FM 23-9, FM 23-31, FM 23-6
Map Reading/Land Nav	FM 21-26
Guard Duty	FM 22-6
First Aid	FM 21-11
Physical Training	FM 21-20
NBC	FM 3-87
Training the Force	FM 25-100
Battle Focus Training	FM 25-101
Legal Guide for Commanders	FM 27-1
UCMJ	AR 27-10
Customs and Courtesies	AR 600-25
Code of Conduct	AR 350-30
Equal Opportunity	AR 600-20
NCO Professional Development	AR 350-17
Individual Military Education	AR 351-1
Correspondence Course Program	AR 351-20
PT & Weight Control	AR 600-9
Command Policy & Procedures	AR 600-20
Unfavorable Information	AR 600-37
Standards of Conduct	AR 600-50
Selection of Enlisted Soldiers For Training	
and Assignment	AR 614-200
Army Continuing Education	AR 621-5
Enlisted Evaluation Reports	AR 623-205
Individual Military Personnel System	AR 640-10
Photographs for Military Personnel Files	AR 640-30
Wear & Appearance of Uniform & Insignia	AR 670-1
Military Awards	AR 672-5-1
Military Personnel Organization &	
Type of Transaction Codes	AR 680-29
Enlisted Personnel Management System	AR 600-200
Career Management of the Enlisted Force	DA Cir 611-82-3
NCO Evaluation Report System	DA Cir 623-88-1
NCOER System "IN-BRIEF"	DA Cir 623-205
Military Personnel Management &	
Administrative Procedures	DA Pam 600-8

9 PRINCIPLES OF TRAINING

- •TRAIN AS COMBINED ARMS/SERVICE TEAMS
- •TRAIN AS YOU FIGHT
- •USE APPROPRIATE DOCTRINE
- •USE PERFORMANCE ORIENTED TRAINING
- •TRAIN TO CHALLENGE
- •TRAIN TO SUSTAIN PROFICIENCY
- •TRAIN USING MULTIECHELON TECHNIQUES
- •TRAIN TO MAINTAIN
- •MAKE CDRS THE PRIMARY TRAINERS



MISSION ESSENTIAL TASK LIST

UNCONSTRAINED STATEMENT OF TASKS
REQUIRED TO ACCOMPLISH WARTIME MISSION

- •NOT PRIORITIZED OR CONSTRAINED BY RESOURCES
- •MUST SUPPORT/COMPLIMENT HIGHER HO METL
- •MUST BE UNDERSTOOD BY CSM and KEY NCOs
- •MUST APPLY TO THE ENTIRE UNIT
- •APPROVED BY NEXT HIGHER CDR
- •COMPANY IS LOWEST LEVEL TO HAVE METL
- •ALL BATTLE STAFFS HAVE METLS





is a professional
discussion that includes
the training participants and
focuses on the training
objectives and the METI

AFTER
ACTION
REVIEWS

STEP 1: PLANNING PHASE

Establish Objectives for AAR
Select qualified observers
Review the T&EO
Identify the AAR participants
Make potential site selections
Select training aids
Draft the AAR plan
Review the unit's training objectives

THE AAR PLAN

Who will observe training?
Who will conduct AAR?
Who attends?
Where and when?
What training aids are needed

STEP 2: PREPARATION PHASE

Review the training objectives, orders, and doctrine
Observe the training
Organize the selected AAR site
Collect information from other observers
Develop a discussion outline
Organize and rehearse

AFTER
ACTION
REVIEWS

Soldiers learn
much more when they
identify for themselves what
went right and wrong,
rather than being told.

STEP 3: EXECUTION PHASE

Restate the unit's mission and objectives
Generate discussions
Orient on training objectives
Seek maximum participation
Continually summarize to emphasize
learning points

DISCUSSION OUTLINE

Introduction

Agenda

AAR "Rules of Engagement"

Task, Condition, and Standards review

Focus Items

- a. Why didn't we meet standards?
- b. How can we fix the problems we observed? Safety Assessment/Risk Update Conclusion



The process of identifying and controlling hazards to protect the force.

It is applicable to any mission and environment.



RISK MANAGEMENT RULES

- Integrate Risk Management into Planning
- Accept no Unnecessary Risk
- Make Risk Decisions at the Proper level
- Accept Risk only if Benefits outweigh Costs.

<u>FACTORS TO CONSIDER</u> (When Identifying Hazards)

- Time for mission preparation and execution
- Terrain and Weather
- Transportation assets and maintenance issues
- Critical accident problem areas
- Long hours and probability of fatigue
- Physical condition/fitness of personnel
- Complexity of Tasks
- Skill level and Experience of personnel
- Personnel attitudes and motivation
- Water hazards (weak swimmers, water temp.)
- Road conditions and Convoy routes
- Condition of equipment
- Day operations-vs- Night operations
- Hazardous materials
- Level of Supervision (Direct or Indirect)

KEY TERMS and DEFINITIONS

- Hazard Any condition that can cause injury, illness, damage or death.
- Risk Chance of hazard or bad consequences expressed by probability & severity.
- Exposure Frequency and length of time subjected to hazard.
- Probability The likelihood that an event will occur.
- Severity The expected consequences in terms of degree of injury or damage.
- Controls Actions taken to eliminate hazards or reduce their risk.
- Risk Assessment The identification and assessment of hazards.
- Residual Risk Level of risk remaining after implementing controls.
- Risk Decision The decision to accept or not accept the risk.



RANK	ACCELERATED	NORMAL
E-1 TO E-2	4-6 MONTHS TIS	6 MONTHS TIS
E-2 TO E-3	6-12 MONTHS TIS	12 MONTHS TIS 4 MONTHS TIG WAIVERABLE
E-3 TO E-4	12 MONTHS TIS 3 MONTHS TIG	26 MONTHS TIS 6 MONTHS TIG 3 MONTHS TIG WAIVERABLE
RANK	SECONDARY ZONE	PRIMARY ZONE
	18 MONTHS TIS	36 MONTHS TIS
E-4 TO E-5	8 MONTHS TIG 1/2 WAIVERABLE	8 MONTHS TIG 1/2 WAIVERABLE

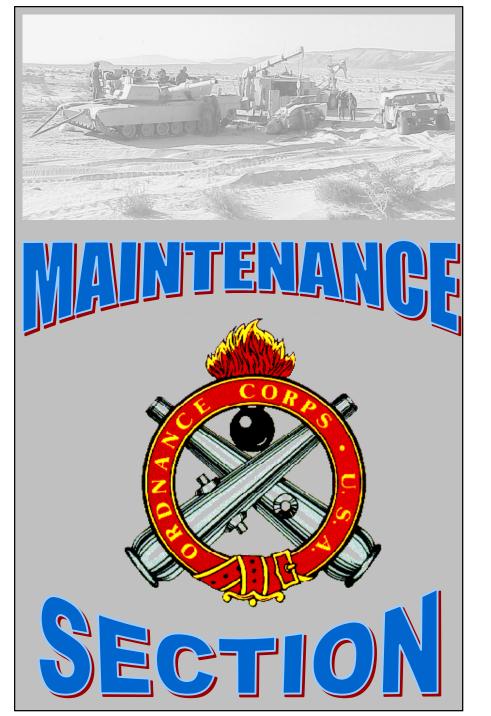
NOTE: IF A SOLDIER IS IN THE PRIMARY ZONE FOR CONSIDERATION FOR PROMOTION TO THE NEXT HIGHER GRADE, AND IS NOT GOING TO BE SELECTED/ APPEAR BEFORE THE PROMOTION BOARD, IT IS MANDITORY THAT THE SOLDIER BE COUNSELED ON THE REASON WHY HE IS NOT GETTING PROMOTED / APPEARING BEFORE THE BOARD. IT MUST INCLUDE POSSIBLE WAYS TO CORRECT THE PROBLEM, SO THAT THE SOLDIER CAN APPEAR AS SOON AS THE PROBLEMS ARE CORRECTED. ALL THIS MUST BE IN WRITING.

GENERAL REMARKS/ REGULATION CHANGES

ITEM	MAXIMUM POINTS
Duty Performance	150
Awards and Decorations	100
Military Education	200
Civilian Education	100
Military Training (APFT and Marksmanship)	100
Total Board Points	150
TOTAL PROMOTION POINTS	800

- a. Both field commanders and Department of the Army have a hand in promotions to SGT and SSG. The process begins with a recommendation by the soldier's unit commander, which is submitted through channels to the promotion authority who conducts the local promotion board. The unit commander's recommendation states that the soldier meets the promotion criteria established for promotion to the specific grade for which the soldier is competing. To recommend or not recommend a soldier for promotion is the responsibility of the unit commander.
- b. A soldier may only compete for promotion in his CPMOS, as outlined in DA PAM 611-21.
- c. Eligible CPLs/SPCs and SGTs compete Army-wide by a three character MOS, and their relative standing is determined by the points attained on a 800 point system for SSGs and SGTs.
- d. The minimum promotion point score for attaining recommended list status for promotion to SGT
- is 350. The minimum score for attaining recommended list status for promotion to SSG is 450. e. The service remaining requirement is six months for promotion to SGT and 12 months for
- promotion to SSG.

 f. Soldiers competing for promotion to SSG must be graduates of the Primary Leadership
 Development Course (PLDC) prior to being recommended for promotion. Effective 1 Oct 92,
 soldiers must be a graduate of BNCOC in order to be promoted to SSG. Effective 1 Oct 89, soldiers
 competing for promotion to SGT must be graduates of PLDC prior to being promoted.
- g. Soldiers competing for promotion to SGT/SSG must possess either a high school diploma, GED equivalency, or an associate or higher degree.
- h. Each month the Department of the Army establishes the total number of soldiers to be promoted based on budgetary and strength constraints. The number or promotions is allocated by PMOS within these constraints.
- $i. \ \ Department of the Army promotion cutoff scores are announced monthly. Soldiers who meet or exceed the announced cutoff score are promoted if otherwise eligible.$



Site Selection and Layout

1. Site Selection (Dependent on Tactical Situation)

- a. Centrally Located to Supported Units
- b. Suitable for Technical Operations
- (1) Near Main Supply Route (MSR)
- (2) Int/Ext Road Network (SPT HVY Traffic)
- (3) Hardstand/ Buildings that can be used
- (4) Will not flood in heavy rain
- (5) Area Large Enough for Vehicle/ Equipment Dispersion
- c. Defendable (Base or Base Cluster)
- (1) Provide Cover and Concealment
- (2) Not on a Major Enemy Avenue of Approach

2. Layout

a. S	election	Location
(1)	Company Headquarters	Central
(2)	Maint Control Office (MCO)	At Main Entrance
(3)	Inspection Point	At Main Entrance
(4)	Supply Point	Near Main Entrance With Own Entr/Exit
(5)	Auto/ Arm PLT	Hardstand, Parking Are
(6)	Service/ Recovery Sec	Near A/A PLT With Own Entr/Exit
(7)	Electronic Maintenance Sec	Dust Free Area
(8)	Bottle Cleaning & Charging Unit	Diesel Fume Free Area

Site Selection and Layout

2. Layout (Continued)

- b. Internal Layout Considerations
 - (1) Posted One Way Internal Traffic Pattern
 - (2) Road Guards on Entrance
 - (3) Obstacle Plan
 - (4) Route Non-Maintenance Traffic around Unit Area
 - (5) Vehicle Dispersion
 - (6) Parking Area for Vehicles Waiting Maintenance
 - (7) Area for Vehicle Crews Waiting Maintenance Support
 - (8) Reaction Force Rally Point
 - (9) Fire Support, Minefield Plan
 - (10) LP/Ops, Roving Patrol Plan
 - (11) Crew Served Weapons Placement
 - (12) Assign Perimeter Responsibility by Sec/PLT
 - (13) Engineer Support Requirements
 - (14) Customer Equipment Camouflage Requirement
 - (15) Sleep/ Work Areas and Internal Power Supply
 - (16) NBC Protective Measures
 - (17) Landing Zone Area
 - (18) Power Generation Cable Layout
 - (19) Escape Route and Rally Point

Maintenance Support Planning

1. Information Needed

- a. Tactical Environment
- b. Tentative Tactical Plan
- c. Facilities in Assigned Area
- d. Number, Type, and Location of Supported Equipment
- e. Repair Parts Availability
- f. Priority by Supported Units (Who)
- g. Priority by Type of Equipment (What)
- h. Air and ground Support
- I. Personnel Availability
- j. Training
- k. Statistical Data (Past History)
- I. Maintenance Time Guidelines
- m. Current Work Load
- n. Estimated Repair Time Required (By Work Load)
- o. Evacuation Priorities/ Procedures
- p. Intelligence/ Data Requirements
- q. Status/ Disposition of Crews waiting Maintenance

2. Computations Made (Scenario Independent)

- a. Location of NMC Equipment/ Pers/ Repair Parts/ Tools/ Lift
- b. Transportation and Repair Time vs. Tactical Situation
- c. Work Standards vs. Repair Time/ Mission Requirements
- d. Contaminated Equipment
- (1) Repair vs. Weather
- (2) Repair Hot vs. Time to Decontaminate

Maintenance Support Planning

2. Computations Made (Scenario Independent) (Continued)

- e. Repair vs. Evacuation
- f. Repair vs. Cannibalization
- g. Coordinate Maintenance and Tactical Plans
- h. Man-Hours Available vs. Required to Meet Mission

3. Controls Established

- a. Supply Distribution
- b. Maintenance Status Reporting
- c. Inspections and Quality Control Procedures
- d. Set Maintenance Time Guidelines
- e. Battlefield Damage Assessment and Repair
- f. Cannibalization Criteria
- g. Evacuation Criteria

4. Provisions for Specialized Services

- a. Recovery and Evacuation
- b. Disposition of Captured Enemy Equipment
- c. Technical Assistance
- d. Technical Intelligence
- e. Explosive Disposal
- f. Calibration
- g. Decontamination
- h. Battlefield Damage Assessment Teams

Maintenance Support Planning

5. Tactical Scenario

- a. Offense
 - (1) Multiple MCPs
 - (2) Leap Frog MCPs
 - (3) Equipment Rally Points
 - (4) Initial Forward Deployment
 - (5) Stock MST with Extra Class IX
 - (6) Shorten Maintenance Time Guidelines
 - (7) Hand Off NMC Equipment to Follow-on Units
 - (8) Use Air Transport to Move and Resupply MSTs
- b. Defense
 - (1) Consolidate Maintenance Elements
 - (2) Onsite Maintenance
 - (3) Longer Maintenance Time Guidelines
 - (4) Use Air Transport
- c. Retrograde
 - (1) Priority on Recovery and Evacuation
 - (2) Minimum Forward Maintenance
 - (3) Equipment Rally Points
 - (4) Implement BDAR
 - (5) Shorter Maintenance Time Guidelines

Maintenance Support Planning

6. NBC Operations/ Considerations

- a. Establish Contaminated Equipment Inspection Point Coordinates
- b. Mark Contaminated Equipments
 - (1) Type of Agent
 - (2) Time of Contamination
- c. Separate Contaminated Equipment
- d. Establish Contaminated Equipment MCP
- e. Establish Contaminated Equipment holding Area
- f. Repair Contaminated Equipment with Contaminated Tools
- g. Do Not Evacuate Contaminated Equipment
- h. Recover with Like Contaminated Equipment
- I. Decon Before Repair (Time Permitting)
- j. Continual Montioring
- k. Disposition of Contaminated Components/ Repair Parts
- I. Rotate Repair Teams to Provide Necessary Rest

Ordnance Unit Road Movement Plan

1. Site Reconnaissance

- 2. Route Reconnaissance (Consider Alternate Route)
- 3. Advance Party Composition and Orders
- 4. Start Point (SP)
- 5. Start Time
- 6. Release Point (RP)
- 7. Rate of March
- 8. Load Plans
- 9. Unloading Plan
- 10. Location of Critical Supplies/ Crew Served Weapons
- 11. Halts
- 12. Refueling Points and Procedures
- 13. Feeding
- 14. Road Guards
- 15. Unit Maintenance Procedures and Location
- 16. Customer Support Procedures While Enroute
- 17. Visual Signals
- 18. Road Markers
- 19. Trail Party (Pick up Road Guards)
- 20. Convoy/ March Unit Composition
- 21. Vehicle/ March Unit Intervals
- 22. Actions upon Separation from Convoy
- 23. Actions upon Air Attack or Ambush

Maintenance Work Priorities List

1. Establish Security

- 2. Establish Defensive Perimeter
- 3. Get Vehicles/ Equipment under Cover
- 4. Sire Machine Guns and other Crew Served Weapons
- 5. Tie in with Adjacent Units
- 6. Establish Wire/ Commo Network
- 7. Dig/ Camouflage Fighting Positions
- 8. Designate Deployment Areas
- 9. Camouflage Vehicles/ Equipment
- 10. Set up Mission Critical Equipment
- 11. Prepare Range Cards
- 12. Selectively Clear Fields of Fire
- 13. Set up Heavy Mission Support Equipment
- 14. Improve Fighting Positions
- 15. Coordinate Rear Operations Requirements
- 16. Dig Protective Shelters for Soldiers not on the Perimeter
- 17. Set up Individual Tents and Equipment

RECOVERABILITY CODES

The recoverability code is a one position alphabetic code. This code will identify the level of maintenance which is allowed to turn-in an unserviceable item and requisition a replacement item when it can no longer be used.

CODE Definition

- **A** This code identifies items which require special procedures in disposal. Reasons for why this code is assigned include: precious metal content, high cost, material in short supply, or hazardous material.
- **D** Reparable Item. Complete repair of this item can only be done at an Army depot. When a lower level of maintenance cannot repair this item, return it to the depot. Army depots are the only activities which can decide that this item should be disposed of.
- F Reparable Item. Complete repair of this item can only be done by the direct support unit. When the organization cannot repair this item, return it to the direct support unit. The direct support unit and higher levels of maintenance can decide that this item should be disposed of.
- H Reparable Item. Complete repair of this item can be done by the general support unit. When a lower level of maintenance cannot repair this item, return it to the general support unit. The general support unit and higher levels of maintenance can decide that this item should be disposed of.
- L Reparable Item. Complete repair of this item can be done by the depot or specialized repair activity. When a lower level of maintenance cannot repair this item, return it to the depot or specialized repair activity. The depot or specialized repair activity can decide that this item should be disposed of.
- **O** Reparable Item. Complete repair of this item can be done by the organization. The organization and higher levels of maintenance can decide that this item should be disposed of.
- **Z** Non-reparable Item. Dispose of this item at the maintenance level authorized to replace it.

STOCKAGE LIST CODES

The stockage list code is a one or two position code. This code gives the reason why a repair part is in the Class IX account.

Q1 Demand supported item. Must have at least nine demands within the last 12 months to add to the ASL or at least three demands to retain.

Q3 Demand supported item. Denotes a reparable item which qualifies for SLC Q and is repaired at the DS maintenance activity and returned to the SSA for stock. Normally used to indicate an RX item.

P1 Stocked provisioning item. Non-demand supported items stocked to support newly fielded items of equipment for up to two years until stockage can be based on actual demand.

P3 Stocked provisioning item. Non-demand supported reparable items which qualify for SLC P and are repaired at the DS maintenance activity and returned to the SSA for stock. Normally used to indicate an RX item

M Stocked numeric. Non-demand supported items for which demands are expected, but not enough to meet demand supported criteria. Examples are MPL lines, seasonal items, and items for which the computed RO is less than the assigned RO.

F Other stocked. Used to identify ORF items.

Z Not stocked. NSL items for which demand data and inventory data are kept, if assets are on hand. No RO exists for these items and no replenishment is allowed. Stockage is not allowed and NSL items on hand as a result of turn in or receipts are processed for disposition as soon as possible.

PROCESS STATISTICS			
PROCESS	OBJECTIVE	MANAGEMENT LEVEL	WHY IT IS IMPORTANT
ZERO BALANCE WDUES-OUT	8%	8-10%	This will tell you how well you are stocking what your customers are asking for. Review your stockage level of this item at the next ASL review board - you may need to increase it.
DENIAL RATES	1%	0-3%	This could indicate that you have asset balance file problems. SARSS is issuing against stock it stays you have on the self, but when you get there, the location is empty. This will cause the line to be "frozen" until an inventory is conducted.
INVENTORY ACCURACY	95%	85%	This will support accurate ABF files and good inventory processes as well as reducing denial and excess. Inventory accuracy is a measure of how well you records indicate the location, condition codes, unit of
RECEIPT PROCESSING	3 DAYS	5 DAYS	This is the time frame from the time supplies arrived at the SSA to posting of receipts to the stock accounting record. This is a direct reflection of how well your receipt
REQUEST PROCESSING	2 DAYS	4 DAYS	This is the time frame from the time a customer's request was received by the SSA to the time the request was processed for issue or passed
LOCATION SURVEY	98%	95%	This will tell you how well your automated location records match the physical locations. Unlike inventory accuracy, no count is

	PROCE	SS STATIST	ICS
PROCESS	OBJECTIVE MGMNT LEVEL		WHY IT IS IMPORTANT
EXCESS CYCLE		•	
REPARABLES	DAILY		Stocks on hand above the RO cost the Army money as well as increases your warehousing workload (location maintenance,
OTHERS	MONTHLY :		inventory accuracy, etc). Make every effort to get rid of excess - somebody else may need the part you're hoarding!
DISPOSITION EXCESS INDICATOR	10 D	AYS	You have 10 days to get rid of excess once its identified. If you aren't processing within 10 days look at your storing and shipping operations - there may be bottlenecks in your operations there.
AUTOMATED SYSTEMS CYCLES	1PER WORKDAY	18 PER MONTH	Customer requests should be processed on a daily basis, as it affects their ability to do their missions. Although the goal is one per day, multiple cycles can be run, further enhancing your ability to support your customers. The final "close out" process must be run at least once per day. This will help maintain accurate ABF records at your location and keep the document history records at SARSS-2A as current as possible (reduces denials generated from referrals).
INVENTORY ADJUSTMENTS	ALLIAR's (LESS ADMIN IAR's) DO NOT EXCEED 2 1/2 % OF THE DOLLAR VALUE OF THE FYRO		Use this as an indicator of how well you are maintaining the Army's property. If your IARs exceed the limit review your warehousing operations - is the warehouse orderly, are the processes in logica locations, are you hindered by being understaffed or undertrained? Consult your support operations office for assistance if necessary.

MAINTENANCE MEETINGS

- 1. **Purpose.** Maintenance meetings are conducted to increase the customers readiness by ensuring the maintenance community is doing everything possible to fix equipment.
- 2. **Frequency.** Meetings should be conducted, as a minimum, weekly.
- 3. **Participants.** An effective maintenance meeting will include:
 - a. Brigade S4.
- b. Support Operations Officer
- c. Support Operations Maintenance Officer.
- d. Shop Officer.
- e. Tech Supply Officer or other knowledgeable representative.
- f. DMMC representative.
- g. BMO/BMT and BMS from each customer unit.

NOTE: Depending on particular readiness problems or other concerns, battalion/task force XOs and the Bde XO should attend.

4. Support Battalion Responsibilities.

a. Support Operations Officer:

- (1) Assists the Bde S4 in conducting the meeting.
- (2) Has a current copy of each customer unit's DA Form 2406/026.
- (3) Maintains focus of the meeting.
- (4) Ensures shop officer and TSO are prepared to brief their areas.
- (5) Ensures DMMC assists as necessary.
- (6) Keeps a non-adversarial tone to the meeting.
- (7) Designates responsibilities for actions identified during the meeting.

b. Support Operations Maintenance Officer:

- (1) Takes detailed minutes and notes for follow-up actions.
- (2) Assists the Support Operations Officer in preparation for the meeting.
- (3) Has a copy of the current SAMS-2 work order parts status listing with current job status and requisition status.

c. Shop Officer:

- (1) Provides status of DS jobs.
- (2) Provides SAMS-1 customer reconciliations.
- (3) Provides estimated completion dates for jobs in shop.
- (4) Provides current status of requisitions for jobs awaiting parts.
- (5) Provides status of MST manning as required.
- (6) Provides current status of ORF.
- (7) Provides a record of SAMS transaction disk turn in.

d. Tech Supply Officer:

- (1) Provides updated status of customer requests as required.
- (2) Provides customer DS4/SARSS reconciliation's as appropriate.
- (3) Identifies critical repair parts, RX, and major assembly shortages.
- (4) Provides records of ULLS Class IX diskette turn-ins by customer DODAAC.
- (5) Provides necessary Class IX expertise to answer customer questions.

e. DMMC Representative:

- (1) Provides maintenance and Class IX expertise as necessary.
- (2) Initiates actions to cross level critical parts from other DSUs/PLLs as needed.
- (3) Provides current status and availability of division ORF.
- (4) Provides current status of customer requests from DS4 due-in/due-out reports.

MAINTENANCE MEETINGS (Continued)

5. Brigade Responsibilities.

- a. Brigade S4:
- (1) Chairs the maintenance meeting.
- (2) Tracks status of reportable equipment and advises the brigade commander of current and projected status of equipment.
- (3) Provides technical supervision and assistance to the battalions/task forces of the BCT.
- b. Battalion/Task Force BMO:
- (1) Provides a DA Form 2406 with the current status of the battalion's equipment to the Bde S4 and Support Operations Officer.
- (2) Provides the current status of the battalion's PLLs.
- (3) Coordinates the battalion's maintenance efforts following the maintenance meeting to ensure Bde S4 guidance is carried out.

6. Techniques for the Maintenance Meeting.

- a. Schedule a time and location each week. If at all possible, maintain the same place and time so a routine becomes established. "Floating" meetings don't work because not everyone gets the word.
- b. Take good notes and establish who has the responsibility for each action that is identified. At the next meeting, have the action officer report what has been accomplished.
- c. Have an agenda for running the meeting. Keep it moving without bogging down in unnecessary details.
- d. When reviewing unit 2406/026 reports, proceed line by line down the backside. Don't skip around.
 - e. Expect people to come prepared to brief their respective areas.
- f. Don't let a unit leave after they have gone over their 2406. Often they can help out with parts or offer suggestions to other units.
- g. Don't get defensive or argumentative with the customers in public. Teamwork is essential in getting customers' equipment fixed. If you want to "jump" on a BMO for having your soldiers work all weekend on a tank and then not closing it out until Tuesday, wait until the meeting is over.
- h. Don't embarrass customers in front of the other units. It's unprofessional and not conducive to good customer relations.

MAINTENANCE AND CLASS IX OPERATIONS Reports

-	_		
Operator/Crew	Company	BMO/T/S	BN TF S-4
By SOP/TM/Update Deadlines	By SOP/TM/Update Combat Power	By SOP/TM/Update Combat Power	By SOP/TM/Update Combat Power
5588E/2404	Verify 5588/2404	Verify/Validate Control 5588/2404	Oversee 5588/2404
PMCS	Update 2406	Prepare 2406	Verify 2406
Identify Faults	Monitor ULLS Comms with SAMS/SARSS	UILS disk T/I SAMS/SARSS	Monitor ULLS Comms with SAMS/SARSS
	AOAP	Manage AOAP	Oversee AOAP
	ID Parts Needed	Critical Issues	Critical Issues
	Monitor PLL	Update -026	Use -026
	Request Parts	UILS Database	BN Budget
		Location of UMCP	
		Locations of Active	
		MCPs	
		Location of Dirty MCP	
		Attends Maint. Meeting	
		Monitor 02 Parts Status	
		Perform Scheduled Services	
		Manage Parts &PIL Assets	
		Advise CDR of Trends	

MAINTENANCE AND CLASS IX OPERATIONS Reports

BN TF XO	BCT S-4	DS Maint Co. Shop Office	FSB SPO/ MATO
Develop Review and Enforce	By SOP/TM/Update	Maint Policies By SOP/Update	By SOP/TM/Update
Priorities	Reviews and Consolidates Reports	Receives data via Blast or Disk	Receives SAMS data
Reporting	Submits Required reports to G-4	SAMS-1 Disk to SPO	SAMS-2 Disk to DMMC
Adhere to SOP/TM/Update	Coordinates with FSB SPO	Critical Issues	Critical Issues
		ULLS Disk T/I	Combat Power
		Location of MSTs	Print and use -026
	Chairs Maintenance Meeting (Daily)	Attends Maintenance Meetings	Co-chairs Maint. Meetings
	Use AHN-026	Maint. Procedures	Maint. Trends
			Supply Category
			Management
			Expedites Class IX

MAINTENANCE AND CLASS IX OPERATIONS Recovery Operations

Operator/Crew	Company	Recovery Team	BMO/T/S
Self Recovery	Like Vehicle Recovery	Receive Mission:	Recovery Support Plan by Mission
Like Vehicle	Receive and Verify Report	~Type Vehicle	Develop Estimates/ID Assets
Report to Unit:	Prioritize:	~Bumper Number	Establish Procedures
~Vehicle	Request Recovery	~Situation	Receive Requests
~Location	Report to CDR	~Accurate Location/	Verify Locations
~Situation	Disposition of Ammo	Route Security	Prioritize Missions
~Personnel	and Personnel	~Destination MCP	Issue Orders: See
Assit Recovery Team	Assist with Recovery	~Map w/checkpoints	Recov. Tm Mission
	Company Maint.	~Compass	Track Teams
	Team	~Obstacle Overlay	Execute Recovery
		~Callsigns/Freqs	Plan
		Priorities	~Track Battle
		~Alternate MCP	Coordinate for
			Disabled Vehicle

BN TF S-4	BN TF XO	BCT S-4	FSB SPO/ MATO
Verify Recovery Support Plan	Responsible for Plan:	Verify BN TF Plans	Plan Back Up
Integrate Plan into BN OPORD	~Completeness	Cross Level Assets	Provide Backup
Track Recovery	~Integration	Track Capabilities	Assist BMO:
Capability	~Synchronization	Request Back-up	~Expertise
Request Back-up	~Execution	Report to G-4	~Log Support
Report to BDE S-4			Planning

Logistician's Cheat Sheet

ADVICE CODES (Unit Request)

1C - Fill as requested, substitute or reject if item not available

- 1J Fill as requested or reject if item not available
- 2A Item is not available through manufacturer, fabrication or procurement
- 2B Only requested item will suffice, do not substitute
- 2C Do not backorder, reject unfilled quantity, suitable substitute acceptable
- 2D Furnish exact quantity requested
- 2E Free Issue
- 2F Item is coded obsolete but still required for immediate use
- 2G Multiple use
- 2H Special textile requirements
- 2J Do not substitute of backorder
- 2L The amount shown exceeds normal demand, valid requirement
- 2T Deliver to consignee by RDD, or cancel requirement

MODES OF SHIPMENT

- A Motor Transport
- B Motor (less than truckload)
- G Surface Parcel Post
- H Air Parcel Post
- I Government Truck
 J Small Package Carrier
- Q Air Freight/Express/Charter
- R Expedited Air Freight
- S Scheduled Truck Service
- 5 United Parcel Service (UPS)
- 6 Military Official Mail
- 7 Express Mail

Logistician's Cheat Sheet

SUPPLY STATUS CODES

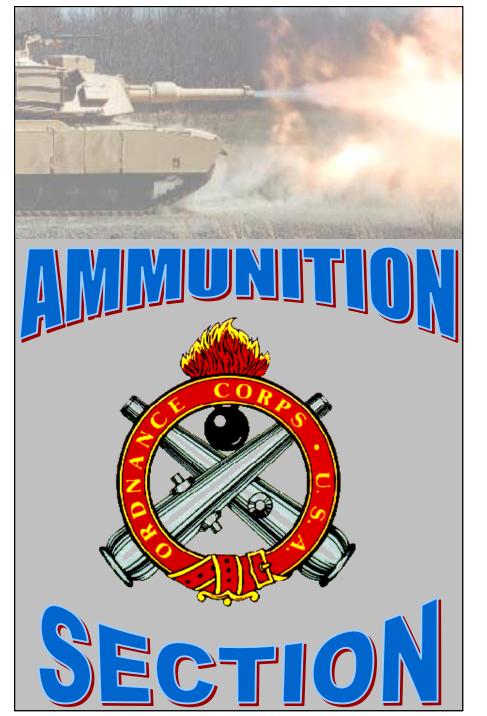
- BA Item processed for release
- BB Item back ordered against due in stock
- BC Item back ordered expect long ESD
- BD Request delayed Need to verify Req's
- BE Depot/storage activity has a record of the MRO
- BF No record of Document Number
- BG One or more items are incorrect
- BH Substitute item will be supplied
- BJ Qty changed to conform to package BK - Requisition data modified
- BL Notice of availability forwarded to country rep
- BM Document forwarded to activity
- BN Transaction is being processed as a free issue
- BP Requisition deferred per customer instructions
- B1 Requisition deferred per customer histractions
- BQ Cancelled by request (DSU)
- BR Cancelled by activity (Higher)
 BS Cancelled by activity
- BT Requisition received and processed for attempted
- BV Item procurred by contract or direct consignee
- B v Item procurred by contract or direct consignee
- BZ Processed for direct delivery
- B7 Unit price changed
- B9 Cancellation
- CA Rejected
- CB Rejected, quantity not filled as required CD Rejected, errors in quantity
- CE Rejected, errors in unit of issue
- CG Rejected, unable to identify requested item
- CH Rejected, sent to incorrect manager
- CJ Rejected, item code obsolete or inactivated
- CK Rejected, item not available, (see DS4)
- CL-CZ Rejected
- CS Rejected, gty ordered is suspect to error
- C1-C9 Rejected
- D2-D8 Rejected
- AOA Routine request
- AE1 Status
- AF1 Follow-up
- AC1 Request for cancellation

Logistician's Cheat Sheet

WORK REQUEST STATUS (TABLE B-21)	COMMON SUPPLY TERMS
A - Awaiting Initial Inspection	ASA - Same as RFI
B - In Shop	ASL - Authorized Stockage List
C - Awainting Shop	CRP - Central Receiving Point
D - Deferred	D6S - A receipt document
E - Awating Final Inspection	DFG - Dedicated Due-in/due-out
F - Final Inspection Complete	EDD - Estimated Delivery Date
G-Test flight, or maintenance operational check	ESD - Estimated Ship Date
H - Awaiting Disposition Instructions from Higher	ESTB - Requisition Established
I - Awaiting Shop While Awaiting non-NMC Parts	MIRP - Date a D6S has been processed
J - In Shop Awaiting NMCS Parts	MRO - Material Release Order
K - Awaiting Non-NMCS Parts	NICP - National Inventory Control Point
L - Evac NMCS	NRF - No Record Found
M - Evac NMCM	O/T - Requisition passed to higher source
N - Evac Depot	PLL - Prescribed Load List
O - Awaiting Evacuation	RFI - Released for Issue
P - NMC for Lack of Facilities/Tools/Test Equipment	SHPD - Shipped from Depot
Q - Awaiting ECOD Actions	SSAR - Supply Support Activity Receipt
R - Awaiting Pickup	
S - Work Complete, Customer Not Notified	<u>DEPOTS</u>
T - Closed, Completed by other Maintenance Activity	A35 - New Cumberland, PA
U - Picked-Up	AQ5 - Sharp, CA
V - Closed (Item Satisfied ORF Exchange)	B16 - CECOM
W - Work Request Closed (Uneconomically Repair)	B17 - St. Louis, MO
X - Work Request Closed (Didn't meet Acceptance)	B46 - Warrenton, VA
Y - Closed (Below Acceptance Standard)	BO7 - Rock Island, IL
Z - Work Order Cancelled	BA4 - Anniston, CA
1 - Awaiting Deadlining NMCS Parts	BK4 - Letterkenny, PA
6 - Re-Inspection (rework the job)	BL6 - Lexinton, KY
7 - Awaiting Float Transaction	BP4 - Pueblo, CO
8 - Rework, return to Shop	BR4 - Texarkana, TX
9 - Begin Intransit Time	BS2 - Corpus Cristi, TX
	BS6 - Sacramento, CA
LEVEL OF WORK CODES TABLE B-24)	SA - Mechanicsburg, PA
LEVEL OF WORK CODES TABLE B-24) O - Unit/AVUM	SA - Mechanicsburg, PA SC - Columbus, OH
	G.
O - Unit/AVUM	SC - Columbus, OH
O - Unit/AVUM F - Direct Support/AVIM	SC - Columbus, OH SM - Memphis, TN
O - Unit/AVUM F - Direct Support/AVIM H - General Support	SC - Columbus, OH SM - Memphis, TN SN - New Cumberland, PA

JULIAN DATE CALENDAR													
(PERPETUAL)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	1	32	60	91	121	152	182	213	244	274	305	335	1
2	2	33	61	92	122	153	183	214	245	275	306	336	2
3	3	34	62	93	123	154	184	215	246	276	307	337	3
4	4	35	63	94	124	155	185	216	247	277	308	338	4
5	5	36	64	95	125	156	186	217	248	278	309	339	5
6	6	37	65	96	126	157	187	218	249	279	310	340	6
7	7	38	66	97	127	158	188	219	250	280	311	341	7
8	8	39	67	98	128	159	189	220	251	281	312	342	8
9	9	40	68	99	129	160	190	221	252	282	313	343	9
10	10	41	69	100	130	161	191	222	253	283	314	344	10
11	11	42	70	101	131	162	192	223	254	284	315	345	11
12	12	43	71	102	132	163	193	224	255	285	316	346	12
13	13	44	72	103	133	164	194	225	256	286	317	347	13
14	14	45	73	104	134	165	195	226	257	287	318	348	14
15	15	46	74	105	135	166	196	227	258	288	319	349	15
16	16	47	75	106	136	167	197	228	259	289	320	350	16
17	17	48	76	107	137	168	198	229	260	290	321	351	17
18	18	49	77	108	138	169	199	230	261	291	322	352	18
19	19	50	78	109	139	170	200	231	262	292	323	353	19
20	20	51	79	110	140	171	201	232	263	293	324	354	20
21	21	52	80	111	141	172	202	233	264	294	325	355	21
22	22	53	81	112	142	173	203	234	265	295	326	356	22
23	23	54	82	113	143	174	204	235	266	296	327	357	23
24	24	55	83	114	144	175	205	236	267	297	328	358	24
25	25	56	84	115	145	176	206	237	268	298	329	359	25
26	26	57	85	116	146	177	207	238	269	299	330	360	26
27	27	58	86	117	147	178	208	239	270	300	331	361	27
28	28	59	87	118	148	179	209	240	271	301	332	362	28
29	29		88	119	149	180	210	241	272	302	333	363	29
30	30		89	120	150	181	211	242	273	303	334	364	30
31	31		90		151		212	243		304		365	31

JULIAN DATE CALENDAR													
				(FC	OR LE	AP Y	EARS	ONL	Y!)				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Day
1	1	32	61	92	122	153	183	214	245	275	306	336	1
2	2	33	62	93	123	154	184	215	246	276	307	337	2
3	3	34	63	94	124	155	185	216	247	277	308	338	3
4	4	35	64	95	125	156	186	217	248	278	309	339	4
5	5	36	65	96	126	157	187	218	249	279	310	340	5
6	6	37	66	97	127	158	188	219	250	280	311	341	6
7	7	38	67	98	128	159	189	220	251	281	312	342	7
8	8	39	68	99	129	160	190	221	252	282	313	343	8
9	9	40	69	100	130	161	191	222	253	283	314	344	9
10	10	41	70	101	131	162	192	223	254	284	315	345	10
11	11	42	71	102	132	163	193	224	255	285	316	346	11
12	12	43	72	103	133	164	194	225	256	286	317	347	12
13	13	44	73	104	134	165	195	226	257	287	318	348	13
14	14	45	74	105	135	166	196	227	258	288	319	349	14
15	15	46	75	106	136	167	197	228	259	289	320	350	15
16	16	47	76	107	137	168	198	229	260	290	321	351	16
17	17	48	77	108	138	169	199	230	261	291	322	352	17
18	18	49	78	109	139	170	200	231	262	292	323	353	18
19	19	50	79	110	140	171	201	232	263	293	324	354	19
20	20	51	80	111	141	172	202	233	264	294	325	355	20
21	21	52	81	112	142	173	203	234	265	295	326	356	21
22	22	53	82	113	143	174	204	235	266	296	327	357	22
23	23	54	83	114	144	175	205	236	267	297	328	358	23
24	24	55	84	115	145	176	206	237	268	298	329	359	24
25	25	56	85	116	146	177	207	238	269	299	330	360	25
26	26	57	86	117	147	178	208	239	270	300	331	361	26
27	27	58	87	118	148	179	209	240	271	301	332	362	27
28	28	59	88	119	149	180	210	241	272	302	333	363	28
29	29	60	89	120	150	181	211	242	273	303	334	364	29
30	30		90	121	151	182	212	243	274	304	335	365	30
31	31		91		152		213	244		305		366	31



COMPATIBILITY GROUPS (CGs)

Ammunition and explosives are assigned to one of 13 CGs as follows:

Group A - Bulk initiating explosives that have the necessary sensitivity to heat, friction, or percussion to make them suitable for use as initiating elements in an explosives train. Examples are wet lead azide, wet lead styphnate, wet mercury fulminate, wet tetracene, dry cyclonite (RDX), and dry pentaerythritol tetranitrate (PETN).

Group B - Detonators and similar initiating devices not containing two or more independent safety features. Items containing initiating explosives that are designed to initiate or continue the functioning of an explosives train. Examples are detonators, blasting caps, small arms primers, and fuzes.

Group C - Bulk propellants, propelling charges, and devices containing propellant with or without their means of ignition. Items that, upon initiation, will deflagrate, explode, or detonate. Examples are single-, double-, triple-base, and composite propellants, rocket motors (solid propellant), and ammunition with inert projectiles.

Group D - Black powder, high explosives (HE), and ammunition containing HE without its own means of initiation and without propelling charge, or a device containing an initiating explosives and containing two or more independent safety features. Ammunition and explosives that can be expected to explode or detonate when any given item or component thereof is initiated except for devices containing initiating explosives with independent safety features. Examples are bulk trinitrotoluene (TNT), Composition B, black powder, wet RDX or PETN, bombs, projectiles, cluster bomb units (CBUs), depth charges, and torpedo warheads.

Group E - Ammunition containing HE without its own means of initiation and with propelling charge (other than one containing a flammable or hypergolic liquid). Ammunition or devices containing HE and containing propelling charges. Examples are artillery ammunition, rockets, or guided missiles.

Group F - Ammunition containing HE with its own means of initiation and with propelling charge (other than one containing a flammable or hypergolic liquid) or without a propelling charge. Examples are grenades, sounding devices, and similar items having an in-line explosives train in the initiator.

COMPATIBILITY GROUPS (CGs)

Ammunition and explosives are assigned to one of 13 CGs as follows:

Group G - Fireworks, illuminating, incendiary, and smoke, including hexachloroethane (HC) or tear-producing munitions other than those munitions that are water activated or which contain white phosphorous (WP) or flammable liquid or gel. Ammunition that, upon functioning, results in an incendiary, illumination, lachrymatory, smoke, or sound effect. Examples are flares, signals, incendiary or illuminating ammunition, and other smoke- or tear-producing devices.

Group H - Ammunition containing both explosives and WP or other pyrophoric material. Ammunition in this group contains fillers which are spontaneously flammable when exposed to the atmosphere. Examples are WP, plasticized white phosphorous (PWP), or other ammunition containing pyrophoric material.

Group J - Ammunition containing both explosives and flammable liquids or gels. Ammunition in this group contains flammable liquids or gels other than those which are spontaneously flammable when exposed to water or the atmosphere. Examples are liquid- or gel-filled incendiary ammunition, fuel-air explosives (FAE) devices, flammable liquid-fueled missiles, and torpedoes.

Group K - Ammunition containing both explosives and toxic chemical agents. Ammunition in this group contains chemicals specifically designed for incapacitating effects more severe than lachrymation. Examples are artillery or mortar ammunition (fuzed or unfuzed), grenades, and rockets or bombs filled with a lethal or incapacitating chemical agent.

Group L - Ammunition not included in other compatibility groups. Ammunition having characteristics that do not permit storage with other types of ammunition, or kinds of explosives, or dissimilar ammunition of this group. Examples are water-activated devices, prepackaged hypergolic liquid-fueled rocket engines, certain FAE devices, triethyl aluminum (TEA), and damaged or suspect ammunition of any group. Types presenting similar hazards may be stored together but not mixed with other groups.

Group N - Ammunition containing only extremely insensitive detonating substances (EIDS). Examples are bombs and warheads.

Group S - Ammunition presenting no significant hazard. Ammunition so packaged or designed that any hazardous effects arising from accidental functioning are confined within the package unless the package has been degraded by fire, in which case all blast or projection effects are limited to the extent that they do not hinder firefighting significantly. Examples are thermal batteries, explosives switches or valves, and other ammunition items packaged to meet the criteria of this group.

ACROYNYMS/ABBREVIATIONS

AA Antiaircraft

ACFT Aircraft

AD Auxilary Detonating

ADAM Area Denial Artillery Munition

AGM Air to Ground Missile (Air-Launched Surface Attack Missile)

AIM Air Intercept Missile

ALT Altitude

AMMO Ammunition

AN Army/Navy

AP(-T) Armor-Piercing(-Tracer)

APC(-T) Armor-Piercing Capped(-Tracer)

APDS(-T) Armor-Piercing Discarding Sabot(-Tracer)
APERS Antipersonnel

APFSDS(-T) Armor-Piercing Fin-Stabilized Discarding Sabot(-Tracer)

APHEI Armor-Piercing High Explosive Incendiary

API(-T) Armor-Piercing Incendiary(-Tracer)

ARTY Artillery

AT Anti-Tank
ASSY Assembly

ATM Air Training Missile

ATWESS Antitank Weapons Effects Signature System

AUX Auxilary

BBC Bromobenzylcyanide (Tear Agent)

BD Base Detonating
BE Base Ejection

BGM Multiple-Platform Surface Attack Missile

BL-P Blind Loaded - Plugged

BL-P/T Blind Loaded - Plugged Tracer

BL-T Blind Loaded - Tracer

BLK Black

BZ "None" (Incapacitating Agent)

CBU Cluster Bomb Unit

CCU Cartridge Unit

CG Phosgene (Choking Agent)

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ACROYNYMS/ABBREVIATIONS
                                                                    ACROYNYMS/ABBREVIATIONS
CHG Charge
                                                                    GEMSS Ground Emplaced Mine Scatterable System
CK Cyanogen Chloride (Blood Agent)
                                                                    GM Guided Missile
CL Chlorine (Irritant)
                                                                    GP General Purpose
CLSTR Cluster
                                                                    GREN Grenade
CN Chloroacetophenone (Tear Agent)
                                                                    GRN Green
CNS CN in Chloropicrin Chloroform (Tear Agent)
                                                                    GRND Ground
COMB Combination
                                                                    GRPSTK Gripstock
CP Concrete Piercing
                                                                    H Levinstein Mustard (Blister Agent)
CR Dibenz-(b,f)-oxazepine (Riot Control)
                                                                    HAZCOM Hazard Communication
CRYPTO Cryptographic
                                                                    HC Hexachloroethane Mixture (Smoke)
CS Cone Stabilized, or O-Chlorobenzamalononitrile (Tear
                                                                    HD Distilled Mustard (Blister Agent)
Agent)
                                                                    HE High-Explosive
CTG Cartridge
                                                                    HE-CVT High-Explosive - Controlled Variable Time
CTN Carton
                                                                    HE-ET/PD High-Explosive - Electronic Time/Point Detonating
DA Diphenylchloroarsine (Vomiting Agent)
                                                                    HE-PD/D High-Explosive - Point Detonating/Delay
DC Diphenylcyanoarsine (Vomiting Agent)
                                                                    HEAA High-Explosive Anti-Armor
DEL Delav
                                                                    HEAT(-T) High-Explosive Anti-Tank(-Tracer)
DEMO Demolition
                                                                    HEDP High-Explosive Dual-Purpose
DET Detonating
                                                                    HEI(-T) High-Explosive Incendiary(-Tracer)
DET-TR Deteriorated Tracer
                                                                    HEI-T-SD High-Explosive Incendiary - Tracer - Self
DISP Dispenser
                                                                    Destruct
DM Adamsite (Vomiting Agent)
                                                                    HEL Helicopter
DOC Document
                                                                    HELI Helicopter
DPICM Dual Purpose Improved Conventional Munition
                                                                    HEP High-Explosive Plastic
ELEC Electric
                                                                    HERA High-Explosive Rocket Assist
EQUIP Equipment
                                                                    HOW Howitzer
EXT Extended
                                                                    HPT High Pressure Test
FAE Fuel Air Explosive
                                                                    HT Mustard-T Mixture (Blister Agent)
FCDC Flexible Confined Detonating Cord
                                                                    HVAP(-T) High-Velocity Armor Piercing(-Tracer)
FLEX Flexible
                                                                    ICM Improved Conventional Munition
FM Titanium Tetrachloride (Smoke)
                                                                    ILLUM Illumination
FMU Fuze Multiple Use
                                                                    IM Isobutyl Methacrylate with Oil (Incendiary)
FRAG Fragment
                                                                    INC Incendiary
FS Sulphur Trioxide Chlorosulphonic Acid Solution (Smoke)
                                                                    IR Infrared
GB Green Bag, or Sarin (Nerve Agent)
                                                                    JATO Jet Assisted Take Off
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ACROYNYMS/ABBREVIATIONS	ACROYNYMS/ABBREVIATIONS
JAU Jet Assist Unit	ORG Orange
KE Kinetic Energy	ORNG Orange
L Lewisite (Blister Agent)	PARA Parachute
LAU Launcher	PD Point Detonating
LAW Light Antitank Weapon	PDF Point Detonating Fuze
LHF Left Hand Feed	PDM Pursuit Deterrent Munition
LNCHR Launcher	PDSQ Point Detonating Super Quick
LNKD Linked	PERC Percussion
LPT Low Pressure Test	PERS Personnel
LR Long Rifle	PETN Pentaerythritol Tetranitrate
LS Low Speed	PFPX Prefragmented Proximity
M2 Model 2	PIBD Point Initiating Base Detonating
MECH Mechanical	POST Passive Optical Scan Technique
MICLIC Mine Clearing Line Charge	PRAC Practice
MIM Mobile Air-Intercept Missile	PROJ Projectile
MJU Munitions Countermeasures Unit	PT Magnesium Pyrotechnic Material (Incendiary Mixture)
MK Mark	PWP Plasticized White Phosphorus (Incendiary and Smoke)
MM Millimeter	RAAM-L Remote Anti-Armor Mine - Long Delay
MOD Modification	RAAM-S Remote Anti-Armor Mine - Short Delay
MOPMS Modular Packed Mine System	RAP Rocket Assisted Projectile
MP Multipurpose	RB Red Bag
MPSD-T Multipurpose Self Distruct Tracer	RCKT Rocket
MPSM Multi-Purpose Submunition	RD Round
MRTR Mortar	RHF Right Hand Feed
MT Mechanical Time	RMP Reprogrammable Micro Processor
MTF Mechanical Time Fuze	RP Red Phosphorus
MTL Metal	RR Railroad
MTPD Mechanical Time Point Detonating	SADM Special Atomic Demolition Munitions
MTR Mortar, or Motor	S&A Safe and Arm
MTSQ Mechanical Time Superquick	SEC Second, or Section
MXU Miscellaneous Unit	SCBA Self Contained Breathing Apparatus
NM Non Metallic	SMAW Shoulder-Launched Multipurpose Assault Weapon
NP Napalm (Incendiary)	SMDC Shielded Mild Detonating Cord
NP-3 Napalm	SMK Smoke
OFF Offensive	SNGL Single

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ACROYNYMS/ABBREVIATIONS
SPAL Simulator, Projectile Airburst Liquid
SPEC Special
STD Standard
STL Steel
STRMR Streamer
SURF Surface
TEA Triethyl Aluminum (Spontaneously Flammable)
TH Thermite or Thermate (Incendiary)
TH1 Thermite
TH4 Thermate
TNT Trinitrotoluene
TORP Torpedo
TOW Tube-Launched, Optically-Tracked, Wire-Guided
TP(-T) Target Practice(-Tracer)
TPA Triethyl Aluminum Plasticized (Spontaneously
Flammable)
TPDS(-T) Target Practice Discarding Sabot(-Tracer)
TR Tracer
TRNG Training
UGM Underwater Surface Attack Missile
UK United Kingdom
VIO Violet
VX "None" (Nerve Agent)
WB White Bag
WHD Warhead
WHT White
WP White Phosphorus (Incendiary and Smoke)
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WRBND Wirebound

YLW Yellow

AMMUNITION CONDITION CODES

The following definitions have been extracted from DOD 5160.65-M. Definition wording is fairly uniform in all service publications. Amplifications of the definitions from the DOD 5160.65-M, AR 725-50 and SB 742-1 are included. For specific Air Force and Navy amplifications see T.O. 11A-1-10 and SPCCINST 8010.12D respectively.

CODE A - SERVICEABLE (ISSUABLE WITHOUT QUALIFICATION)

New, used, repaired, or reconditioned materiel which is serviceable and issuable to all customers without limitation or restriction. Includes materiel with more than 6 months shelf life remaining.

Amplifications: DOD - None.

AR - For Army, level of preservation and packaging is not a restriction for issue.

SB - Normal incidental requirements for additional packaging, packing, or marking, etc., that can be accomplished at time of issue (without additional resources or manpower or causing a delay) does not constitute a restriction.

CODE B - SERVICEABLE (ISSUABLE WITH QUALIFICATION)

New, used, repaired, or reconditioned materiel which is serviceable and issuable for its intended purpose but which is restricted from issue to specific units, activities, or geographical areas by reason of its limited usefulness or short service life expectancy. Includes materiel with 3 through 6 months shelf life remaining.

Amplifications:

DOD - Includes non-conforming materiel authorized by waiver or deviation which is ready for issue with limited or restricted conditions. Includes materiel of non-standard configuration or identification which is intended for non-standard test or training use only.

- AR For Army, the manager will not include the level of preservation and packaging as part of the restriction for issue. The item manager will preserve the limits of usefulness or criteria for determining short shelf life. This will be by specific commodity or by item for inclusion within this code.
- SB Normal incidental requirements for additional packaging, packing, or marking, etc., that can be accomplished at time of issue (without additional resources or manpower or causing a delay) does not constitute a restriction. Includes items restricted from or to specific missions.

AMMUNITION CONDITION CODES

CODE C - SERVICEABLE (PRIORITY ISSUE)

Items which are serviceable and issuable to selected customers, but which must be issued before Condition Codes A and B materiel to avoid loss as a usable asset. Includes materiel with less than 3 months shelf life remaining.

Amplifications: SB - None.

- DOD Includes materiel which can be shipped and used (formerly identified shippable/shootable). Application of Condition Code C is at the discretion of the owning service.
- AR For Army, this includes those items showing deterioration that are suitable for issue as directed by the commodity commands.

CODE D - SERVICEABLE (TEST/MODIFICATION)

Serviceable materiel which requires test, alteration, modification, technical data marking, conversion, or disassembly. This does not include items which must be inspected or tested immediately prior to issue.

Amplifications: SB - None.

- DOD For Navy owned assets, applies only to new materiel awaiting final acceptance.
- AR For Army, this includes items that require surveillance, laboratory analysis, functional testing, and technical evaluation by higher authority to verify serviceability.

CODE E - UNSERVICEABLE (LIMITED RESTORATION)

Materiel which involves only limited expense or effort to restore to serviceable condition and which is accomplished in the Storage Activity where the stock is located.

Amplifications:

- DOD Includes materiel requiring limited exterior maintenance or repair/replacement of packaging/pallets and marking to return to a serviceable condition. May be issued to support ammunition requisitions coded to indicate acceptability of useable Condition Code E stock.
- AR Limited expense or effort is that which is allowable for expenditure by the care and preservation activity under current policy.
- SB Minor maintenance is exterior to the round or munitions. Includes all repair of external surfaces and repair or replacement of packaging, packing, palletization, and marking.

AMMUNITION CONDITION CODES

CODE F - UNSERVICEABLE (REPARABLE)

Economically reparable materiel which requires repair, overhaul, or reconditioning; includes reparable items which are radioactively contaminated.

Amplifications:

- DOD Typically, materiel which requires major maintenance more complex than Condition Code E.
- AR Excludes reparable assets which are covered under contract warranty.
- SB Major maintenance usually requires replacement of end item components or modification.

CODE G - UNSERVICEABLE (INCOMPLETE)

Materiel requiring additional parts or components to complete the end item prior to issue.

Amplifications: DOD/AR/SB - None.

CODE H - UNSERVICEABLE (CONDEMNED)

Materiel which has been determined to be unserviceable and does not meet repair criteria; includes condemned items which are radioactively contaminated:

Type I shelf life materiel that has passed its expiration date; and Type II shelf life materiel that has passed its expiration date and cannot be extended.

(NOTE: Classify obsolete and excess materiel to its proper condition code before consigning it to the DRMO. Do not classify materiel in Condition Code H unless it is truly unserviceable and does not meet repair criteria.)

Amplifications:

DOD/SB - Includes materiel determined to be uneconomically reparable.

AR - For Army, the item must not contain any components or assemblies to be reclaimed. This includes ammunition, except serviceable surplus or obsolete ammunition authorized for demilitarization.

AMMUNITION CONDITION CODES

CODE J - SUSPENDED (IN STOCK)

Materiel in stock which has been suspended from issue (SB adds "and use") pending condition classification or analysis, where the true condition is not known. Includes shelf life Type II materiel that has reached its expiration date pending inspection, test, or restoration.

Amplifications:

DOD - Includes materiel pending serviceability determination as a result of malfunction investigations. Condition Code J may be assigned temporarily until the true condition code is determined. Includes Air Force materiel that is identified and held for future test or surveillance requirements, either destructive or non-destructive in nature. May contain formerly serviceable assets that became non-issuable by reason of being reserved

for test, or the shelf life or service life has expired.

- AR Also included are items that have been suspended from issue and use pending commodity command investigation or determination of serviceability and munition items that are being subjected to a malfunction investigation due to an unsafe or other defective condition. Unclassified (Condition Code K) returns are excluded.
- SB Includes Temporarily Suspended materiel pending serviceability determination. Army ammunition that has missed two scheduled periodic inspections is included.

CODE K - SUSPENDED (RETURNS)

Materiel returned from customers or users (AR adds "suspended from issue pending inspection") and awaiting condition classification.

Amplifications:

DOD - This materiel shall be properly classified within 45 days (extensions may be granted by the owning service).

AR/SB - Includes items that have been identified by stock number and name, but not examined for condition. These stocks will be inspected and properly classified as to condition according to allowable time standards. When more time is needed because of receipts in large quantities, lack of facilities, lack of personnel, or other circumstances, the accountable supply distribution activity may grant an extension.

AMMUNITION CONDITION CODES

CODE L - SUSPENDED (LITIGATION)

Materiel held pending litigation or negotiation with contractors or common carriers.

Amplifications: DOD/SB - None.

AR - For Army, this includes shipments with overages, defects, or other conditions that require negotiations or litigation with procurement sources or common carrier to determine responsibility or liability for correction. Assets held pending the results of a report of survey are also included. This code should not be used with misdirected shipments.

CODE M - SUSPENDED (IN WORK)

Materiel identified on inventory control records but which has been turned over to (AR adds "and accepted by") a (AR adds "Army or DOD") maintenance facility or contractor (AR adds "plant") for processing.

Amplifications: DOD/AR/SB - None.

CODE N - SUSPENDED (SUITABLE FOR EMERGENCY COMBAT USE ONLY)

Ammunition stocks suspended from issue except for emergency combat use.

Amplifications: DOD/AR/SB - None.

CODE P - UNSERVICEABLE (RECLAMATION)

Materiel determined to be unserviceable, uneconomically reparable as a result of physical inspection, teardown, or engineering decision. Item contains serviceable components or assemblies to be reclaimed.

Amplifications: AR/SB - None.

DOD - Assigned as directed by the owning Service.

CODE Q - SUSPENDED (QUALITY DEFICIENT EXHIBITS)

This code is for intra-Air Force use only. Quality deficient exhibits returned by customer/user as directed by the inventory manager due to technical deficiencies reported by Quality Deficiency Report. Exhibit requires technical or engineering analysis to determine cause of failure to perform in accordance with specifications.

Amplifications: DOD/AR - None. Definition not in SB.

AMMUNITION CONDITION CODES

CODE Q - SUSPENDED (QUALITY DEFICIENT EXHIBITS)

This code is for intra-Air Force use only. Quality deficient exhibits returned by customer/user as directed by the inventory manager due to technical deficiencies reported by Quality Deficiency Report. Exhibit requires technical or engineering analysis to determine cause of failure to perform in accordance with specifications.

Amplifications: DOD/AR - None. Definition not in SB.

CODE R - SUSPENDED (RECLAIMED ITEMS, AWAITING CONDITION DETERMINATION)

Assets turned in by reclamation activities which do not have the capability (e.g., skills, manpower, or test equipment) to determine the materiel condition. Actual condition shall be determined prior to induction into maintenance activities for repair/modification.

Amplifications: DOD/AR - None. Definition not in SB.

CODE S - UNSERVICEABLE (SCRAP)

Materiel that has no value except for its basic materiel content. No stock shall be recorded as on hand in Condition Code S. This code is used only on transactions involving shipments to DRMOs. Materiel shall not be transferred to Condition Code S prior to turn-in to DRMOs if materiel is recorded in Condition Code A through H at the time materiel is determined excess. Materiel identified by NSN shall not be identified by this condition code.

Amplifications: DOD/AR - None. Definition not in SB.

CODE W (AR definition) - UNSERVICEABLE (WARRANTED REPARABLE)

Materiel under contract warranty which requires repair, overhaul, reconditioning, or replacement. Includes reparable items that are radioactively contaminated.

Amplifications: AR - None. Definition not in DOD or SB.

HAZARD CLASS 1 IDENTIFICATION NUMBERS, PROPER SHIPPING NAMES and HD with CG extracted from 49 CFR

Proper Shipping Names are limited to those shown in bold Roman type (not italics). Proper Shipping Names may be used in the singular or plural and in either capital or lower case letters. Punctuation marks and words in italics are not part of the Proper Shipping Name, but may be used in addition to the Proper Shipping Name. The word "or" in italics indicates that terms in the sequence may be used as the Proper Shipping Name, as appropriate. Following this HC 1 UN listing is a HC 1 NA listing. A UN listing for the Non-Hazard Class 1 entries in this publication follows those lists.

UN PROPER SHIPPING NAME - HC/DIV with CG

- 0004 Ammonium picrate, dry or wetted with less than 10 percent water by mass- 1.1D
- 0005 Cartridges for weapons, with bursting charge 1.1F
- 0006 Cartridges for weapons, with bursting charge $\ensuremath{\text{1.1E}}$
- 0007 Cartridges for weapons, with bursting charge 1.2F
- 0009 Ammunition, Incendiary with or without burster, expelling charge, or propelling charge 1.2G
- 0010 Ammunition, Incendiary with or without burster, expelling charge, or propelling charge 1.3G
- 0012 Cartridges for weapons, inert projectile or Cartridges, small arms 1.4S
- 0014 Cartridges for weapons, blank or Cartridges, small arms, blank 1.4S
- 0015 Ammunition, smoke with or without burster, expelling charge or propelling charge 1.2G
- 0016 Ammunition, smoke with or without burster, expelling charge or propelling charge 1.3G
- 0018 Ammunition, tear-producing with burster, expelling charge or propelling charge 1.2G
- 0019 Ammunition, tear-producing with burster, expelling charge or propelling charge 1.3G
- 0020* Ammunition, toxic with burster, expelling charge, or propelling charge 1.2K
- 0021* Ammunition, toxic with burster, expelling charge, or propelling charge 1.3K
- 0027 Black powder or Gunpowder, granular or as a meal 1.1D
- 0028 Black powder, compressed or Gunpowder, compressed or Black powder, in pellets or Gunpowder, in pellets 1.1D
- 0029 Detonators, non-electric, for blasting 1.1B
- 0030 Detonators, electric, for blasting 1.1B
- 0033 Bombs, with bursting charge 1.1F
- 0034 Bombs, with bursting charge 1.1D
- 0035 Bombs, with bursting charge 1.2D
- 0037 Bombs, photo-flash 1.1F

HAZARD CLASS 1 IDENTIFICATION NUMBERS 0038 Bombs, photo-flash - 1.1D 0039 Bombs, photo-flash - 1.2G 0042 Boosters, without detonator - 1.1D 0043 Bursters, explosive - 1.1D 0044 Primers, cap type - 1.4S 0048 Charges, demolition - 1.1D 0049 Cartridges, flash - 1.1G 0050 Cartridges, flash - 1.3G 0054 Cartridges, signal - 1.3G 0055 Cases, cartridge, empty with primer - 1.4S 0056 Charges, depth - 1.1D 0059 Charges, shaped, commercial, without detonator - 1.1D 0060 Charges, supplementary explosive - 1.1D 0065 Cord, detonating, flexible - 1.1D 0066 Cord, igniter - 1.4G 0070 Cutters, cable, explosive - 1.4S 0072 Cyclotrimethylenetrinitramine, wetted or Cyclonite, wetted or Hexogen, wetted or RDX, wetted with not less than 15 percent water by mass - 1.1D 0073 Detonators for ammunition - 1.1B 0074 Diazodinitrophenol, wetted with not less than 40 percent water or mixture of alcohol and water, by mass - 1.1A 0075 Diethyleneglycol dinitrate, desensitized with not less than 25 percent non-volatile water-insoluble phlegmatizer, by mass - 1.1D 0076 Dinitrophenol, dry or wetted with less than 15 percent water, by mass - 1.1D 0077 Dinitrophenolates alkali metals, dry or wetted with less than 15 percent water, by mass - 1.3C 0078 Dinitroresorcinol, dry or wetted with less than 15 percent water, by mass- 1.1D 0079 Hexanitrodiphenylamine or Dipicrylamine or Hexyl - 1.1D 0081 Explosive, blasting, type A - 1.1D 0082 Explosive, blasting, type B - 1.1D 0083 Explosive, blasting, type C - 1.1D 0084 Explosive, blasting, type D - 1.1D 0092 Flares, surface - 1.3G 0093 Flares, aerial - 1.3G 0094 Flash powder - 1.1G

HAZARD CLASS 1 IDENTIFICATION NUMBERS

- 0099 Fracturing devices, explosive, without detonators for oil wells 1.1D
- 0101 Fuse, instantaneous, non-detonating or Quickmatch 1.3G
- 0102 Cord detonating or Fuse detonating metal clad 1.2D
- 0103 Fuse, igniter tubular metal clad 1.4G
- 0104 Cord, detonating, mild effect or Fuse, detonating, mild effect metal clad- 1.4D
- 0105 Fuse, safety 1.4S
- 0106 Fuzes, detonating 1.1B
- 0107 Fuzes, detonating 1.2B
- 0110 Grenades, practice, hand or rifle 1.4S
- 0113 Guanyl nitrosaminoguanylidene hydrazine, wetted with not less than 30 percent water, by mass -1.1A
- 0114 Guanyl nitrosaminoguanyltetrazene, wetted or Tetrazene, wetted with not less than 30 percent water or mixture of alcohol and water, by mass 1.1A
- than 30 percent water or mixture of alcohol and water, by mass 1.1A

 0118 Hexolite, or Hexotol dry or wetted with less than 15 percent water, by mass- 1.1D
- 0121 Igniters 1.1G
- 0124 Jet perforating guns, charged oil well, without detonator 1.1D
- 0129 Lead azide, wetted with not less than 20 percent water or mixture of alcohol and water. by mass -1.1A
- 0130 Lead styphnate, wetted or Lead trinitroresorcinate, wetted with not less than 20 percent water or mixture of alcohol and water, by mass 1.1A
- 0131 Lighters, fuse 1.4S
- 0132* Deflagrating metal salts of aromatic nitroderivatives, n.o.s. 1.3C
- 0135 Mercury fulminate, wetted with not less than 20 percent water, or mixture of alcohol and water, by mass 1.1A
- 0136 Mines with bursting charge 1.1F
- 0137 Mines with bursting charge 1.1D
- 0138 Mines with bursting charge 1.2D
- 0143 Nitroglycerin, desensitized with not less than 40 percent non-volatile water insoluble phlegmatizer, by mass 1.1D
- 0144 Nitroglycerin, solution in alcohol, with more than 1 percent but not more than 10 percent nitroglycerin 1.1D
- 0146 Nitrostarch, dry or wetted with less than 20 percent water, by mass 1.1D
- 0147 Nitro urea 1.1D
- 0150 Pentaerythrite tetranitrate, wetted or Pentaerythritol tetranitrate, wetted, or PETN, wetted with not less than 25 percent water, by mass, or Pentaerythrite tetranitrate, or Pentaerythritol tetranitrate, or PETN, desensitized with not less than 15 percent phlegmatizer by mass 1.1D

HAZARD CLASS 1 IDENTIFICATION NUMBERS	HAZARD CLASS 1 IDENTIFICATION NUMBERS
0151 Pentolite, dry or wetted with less than 15 percent water, by mass - 1.1D	0213 Trinitroanisole - 1.1D
0153 Trinitroaniline or Picramide - 1.1D	0214 Trinitrobenzene, dry or wetted with less than 30 percent water, by mass- 1.1D
0154 Trinitrophenol or Picric acid, dry or wetted with less than 30 percent water, by mass - 1.1D	0215 Trinitrobenzoic acid, dry or wetted with less than 30 percent water, by mass- 1.1D
0155 Trinitrochlorobenzene or Picryl chloride - 1.1D	0216 Trinitro-meta-cresol - 1.1D
0158 Potassium salts of aromatic nitro-derivatives, explosive - 1.3C	0217 Trinitronaphthalene - 1.1D
0159 Powder cake, wetted or Powder paste, wetted with not less than 25 percent water,	0218 Trinitrophenetole - 1.1D
by mass - 1.3C	0219 Trinitroresorcinol or Styphnic acid, dry or wetted with less than 20 percent water, or
0160 Powder, smokeless - 1.1C	mixture of alcohol and water, by mass - 1.1D 0220 Urea nitrate, dry or wetted with less than 20 percent water, by mass - 1.1D
0161 Powder, smokeless - 1.3C	0221 Warheads, torpedo with bursting charge - 1.1D
0167 Projectiles, with bursting charge - 1.1F	
0168 Projectiles, with bursting charge - 1.1D	0222 Ammonium nitrate, with more than 0.2 percent combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added
0169 Projectiles, with bursting charge - 1.2D	substance - 1.1D
0171 Ammunition, illuminating with or without burster, expelling charge or propelling charge - 1.2G	0224 Barium azide, dry or wetted with less than 50 percent water, by mass - 1.1A 0225 Boosters with detonator - 1.1B
0173 Release devices, explosive - 1.4S	
0174 Rivets, explosive - 1.4S	0226 Cyclotetramethylenetetranitramine, wetted or HMX, wetted or Octogen, wetted with not less than 15 percent water, by mass - 1.1D
0180 Rockets, with bursting charge - 1.1F	0234 Sodium dinitro-o-cresolate, dry or wetted with less than 15 percent water, by mass - 1.3C
0181 Rockets, with bursting charge - 1.1E	0235 Sodium picramate, dry or wetted with less than 20 percent water, by mass- 1.3C
0182 Rockets, with bursting charge - 1.2E	0236 Zirconium picramate, dry or wetted with less than 20 percent water, by mass-1.3C
0183 Rockets, with inert head - 1.3C	0237 Charges, shaped, flexible, linear - 1.4D
0186 Rocket motors - 1.3C	0238 Rockets, line-throwing - 1.2G
0190* Samples, explosive, other than initiating explosives - None Listed	0240 Rockets, line-throwing - 1.3G
0191 Signal devices, hand - 1.4G	0241 Explosive, blasting, type E - 1.1D
0192 Signals, railway track, explosive - 1.1G	0242 Charges, propelling, for cannon - 1.3C
0193 Signals, railway track, explosive - 1.4S	0243 Ammunition, incendiary, white phosphorus, with burster, expelling charge or
0194 Signals, distress, ship - 1.1G	propelling charge - 1.2H
0195 Signals, distress, ship - 1.3G	0244 Ammunition, incendiary, white phosphorus, with burster, expelling charge or
0196 Signals, smoke - 1.1G	propelling charge - 1.3H
0197 Signals, smoke - 1.4G	0245 Ammunition, smoke, white phosphorus with burster, expelling charge, or propelling charge - 1.2H
0203* Sodium salts of aromatic nitro-derivatives, n.o.s. explosive - 1.3C	0246 Ammunition, smoke, white phosphorus with burster, expelling charge, or propelling
0204 Sounding devices, explosive - 1.2F	charge - 1.3H
0207 Tetranitroaniline - 1.1D	0247 Ammunition, incendiary liquid or gel, with burster, expelling charge or propelling
0208 Trinitrophenylmethylnitramine or Tetryl - 1.1D	charge - 1.3J
0209 Trinitrotoluene or TNT, dry or wetted with less than 30% water, by mass- 1.1D	0248* Contrivances, water-activated, with burster, expelling charge or propelling charge - 1.2L

HAZARD CLASS 1 IDENTIFICATION NUMBERS

- 0249* Contrivances, water-activated, with burster, expelling charge or propelling charge 0250 Rocket motors with hypergolic liquids with or without an expelling charge- 1.3L
- 0254 Ammunition, illuminating with or without burster, expelling charge or propelling
- charge 1.3G 0255 Detonators, electric, for blasting - 1.4B
- 0257 Fuzes, detonating 1.4B
- 0266 Octolite or Octol, dry or wetted with less than 15 percent water, by mass- 1.1D
- 0267 Detonators, non-electric, for blasting 1.4B
- 0268 Boosters with detonator 1.2B
- 0271* Charges, propelling 1.1C
- 0272* Charges, propelling 1.3C 0275 Cartridges, power device - 1.3C
- 0276 Cartridges, power device 1.4C
- 0277 Cartridges, oil well 1.3C
- 0278 Cartridges, oil well 1.4C 0279 Charges, propelling, for cannon - 1.1C
- 0280 Rocket motors 1.1C
- 0281 Rocket motors 1.2C
- 0282 Nitroguanidine or Picrite, dry or wetted with less than 20 percent water, by mass -
- 1.1D
- 0283 Boosters, without detonator 1.2D
- 0284 Grenades, hand or rifle, with bursting charge 1.1D
- 0285 Grenades, hand or rifle, with bursting charge 1.2D 0286 Warheads, rocket with bursting charge - 1.1D
- 0287 Warheads, rocket with bursting charge 1.2D
- 0288 Charges, shaped, flexible, linear 1.1D
- 0289 Cord, detonating, flexible 1.4D
- 0290 Cord, detonating or Fuse, detonating metal clad 1.1D
- 0291 Bombs, with bursting charge 1.2F
- 0292 Grenades, hand or rifle, with bursting charge 1.1F
- 0293 Grenades, hand or rifle, with bursting charge 1.2F
- 0294 Mines with bursting charge 1.2F
- 0295 Rockets, with bursting charge 1.2F
- 0296 Sounding devices, explosive 1.1F

- HAZARD CLASS 1 IDENTIFICATION NUMBERS
- charge 1.4G 0299 Bombs, photo-flash - 1.3G
- 0300 Ammunition, incendiary with or without burster, expelling charge or propelling

charge - 1.4G

0301 Ammunition, tear-producing with burster, expelling charge or propelling charge -

0297 Ammunition, illuminating with or without burster, expelling charge or propelling

- 1.4G
- 0303 Ammunition, smoke with or without burster, expelling charge or propelling charge -
- 0305 Flash powder 1.3G 0306 Tracers for ammunition - 1.4G
- 0312 Cartridges, signal 1.4G
- 0313 Signals, smoke 1.2G
- 0314 Igniters 1.2G 0315 Igniters - 1.3G
- 0316 Fuzes, igniting 1.3G
- 0317 Fuzes, igniting 1.4G 0318 Grenades, practice, hand or rifle - 1.3G
- 0319 Primers, tubular 1.3G
- 0320 Primers, tubular 1.4G
- 0321 Cartridges for weapons, with bursting charge 1.2E
- 0322 Rocket motors with hypergolic liquids with or without an expelling charge- 1.2L
- 0323 Cartridges, power device 1.4S 0324 Projectiles, with bursting charge - 1.2F
- 0325 Igniters 1.4G
- 0326 Cartridges for weapons, blank 1.1C
- 0327 Cartridges for weapons, blank or Cartridges, small arms, blank 1.3C

0328 Cartridges for weapons, inert projectile - 1.2C

- 0329 Torpedoes with bursting charge 1.1E
- 0330 Torpedoes with bursting charge 1.1F
- 0331 Explosive, blasting, type B or Agent blasting, Type B 1.5D 0332 Explosive, blasting, type E or Agent blasting, Type E - 1.5D
- 0333 Fireworks 1.1G
- 0334 Fireworks 1.2G
- 0335 Fireworks 1.3G

HAZARD CLASS 1 IDENTIFICATION NUMBERS	HAZARD CLASS 1 IDENTIFICATION NUMBERS
0335 Fireworks - 1.3G	0367 Fuzes, detonating - 1.4S
0336 Fireworks - 1.4G	0368 Fuzes, igniting - 1.4S
0337 Fireworks - 1.4S	0369 Warheads, rocket with bursting charge - 1.1F
0338 Cartridges for weapons, blank or Cartridges, small arms, blank - 1.4C	0370 Warheads, rocket with burster or expelling charge - 1.4D
0339 Cartridges for weapons, inert projectile or Cartridges, small arms - 1.4C	0371 Warheads, rocket with burster or expelling charge - 1.4F
0340 Nitrocellulose, dry or wetted with less than 25 percent water (or alcohol), by mass -	0372 Grenades, practice, hand or rifle - 1.2G
1.1D	0373 Signal devices, hand - 1.4S
0341 Nitrocellulose, unmodified or plasticized with less than 18 percent plasticizing substance, by mass - 1.1D	0374 Sounding devices, explosive - 1.1D
0342 Nitrocellulose, wetted with not less than 25 percent alcohol, by mass - 1.3C	0375 Sounding devices, explosive - 1.2D
0343 Nitrocellulose, plasticized with not less than 18 percent plasticizing substance, by	0376 Primers, tubular - 1.4S
mass - 1.3C	0377 Primers, cap type - 1.1B
0344 Projectiles, with bursting charge - 1.4D	0378 Primers, cap type - 1.4B
0345 Projectiles, inert with tracer - 1.4S	0379 Cases, cartridges, empty with primer - 1.4C
0346 Projectiles, with burster or expelling charge - 1.2D	0380 Articles, pyrophoric - 1.2L
0347 Projectiles, with burster or expelling charge - 1.4D	0381 Cartridges, power device - 1.2C
0348 Cartridges for weapons, with bursting charge - 1.4F	0382* Components, explosive train, n.o.s 1.2B
0349* Articles, explosive, n.o.s 1.4S	0383* Components, explosive train, n.o.s 1.4B
0350* Articles, explosive, n.o.s 1.4B	0384* Components, explosive train, n.o.s 1.4S
0351* Articles, explosive, n.o.s 1.4C	0385 5-Nitrobenzotriazol - 1.1D
0352* Articles, explosive, n.o.s 1.4D	0386 Trinitrobenzenesulforic acid - 1.1D
0353* Articles, explosive, n.o,s 1.4G	0387 Trinitrofluorenone - 1.1D
0354* Articles, explosive, n.o.s 1.1L	0388 Trinitrotoluene and Trinitrobenzene mixtures or TNT and trinitrobenzene mixtures
0355* Articles, explosive, n.o.s 1.2L	or TNT and hexanitrostilbene mixtures or Trinitrotoluene and hexanitrostilbene mixtures - 1.1D
0356* Articles, explosive, n.o.s 1.3L	0389 Trinitrotoluene mixtures containing Trinitrobenzene and Hexanitrostilbene or TNT
0357* Substances, explosive, n.o.s 1.1L	mixtures containing trinitrobenzene and hexanitrostilbene - 1.1D
0358* Substances, explosive, n.o.s 1.2L	0390 Tritonal - 1.1D
0359* Substances, explosive, n.o.s 1.3L	0391 RDX and HMX mixtures, wetted with not less than 15 percent water by mass or RDX and HMX mixtures, desensitized with not less than 10 percent phlegmatizer by mass - 1.1D
0360 Detonator assemblies, non-electric, for blasting - 1.1B	
0361 Detonator assemblies, non-electric, for blasting - 1.4B	0392 Hexanitrostilbene - 1.1D
0362 Ammunition, practice - 1.4G	0393 Hexotonal - 1.1D
0363 Ammunition, proof - 1.4G	0394 Trinitroresorcinol, wetted or Styphnic acid, wetted with not less than 20 percent
0364 Detonators for ammunition - 1.2B	water, or mixture of alcohol and water by mass - 1.1D
0365 Detonators for ammunition - 1.4B	0395 Rocket motors, liquid fueled - 1.2J
0366 Detonators for ammunition - 1.4S	0396 Rocket motors, liquid fueled - 1.3J

HAZARD CLASS 1 IDENTIFICATION NUMBERS 0397 Rockets, liquid fueled with bursting charge - 1.1J 0398 Rockets, liquid fueled with bursting charge - 1.2J 0399 Bombs with flammable liquid, with bursting charge - 1.1J 0400 Bombs with flammable liquid, with bursting charge - 1.2J 0401 Dipicryl sulfide, dry or wetted with less than 10 percent water, by mass - 1.1D 0402 Ammonium perchlorate - 1.1D 0403 Flares, aerial - 1.4G 0404 Flares, aerial - 1.4S 0405 Cartridges, signal - 1.4S 0406 Dinitrosobenzene - 1.3C 0407 Tetrazol-1-acetic acid - 1.4C 0408 Fuzes, detonating, with protective features - 1.1D 0409 Fuzes, detonating, with protective features - 1.2D 0410 Fuzes, detonating, with protective features - 1.4D 0411 Pentaerythrite tetranitrate or Pentaerythritol tetranitrate or PETN, with not less than 7 percent wax by mass - 1.1D 0412 Cartridges for weapons, with bursting charge - 1.4E 0413 Cartridges for weapons, blank - 1.2C 0414 Charges, propelling, for cannon - 1.2C 0415* Charges, propelling - 1.2C 0417 Cartridges for weapons, inert projectile or Cartridges, small arms - 1.3C 0418 Flares, surface - 1.1G 0419 Flares, surface - 1.2G 0420 Flares, aerial - 1.1G 0421 Flares, aerial - 1.2G 0424 Projectiles, inert, with tracer - 1.3G 0425 Projectiles, inert, with tracer - 1.4G 0426 Projectiles, with burster or expelling charge - 1.2F 0427 Projectiles, with burster or expelling charge - 1.4F 0428 Articles, pyrotechnic for technical purposes - 1.1G 0429 Articles, pyrotechnic for technical purposes - 1.2G 0430 Articles, pyrotechnic for technical purposes - 1.3G 0431 Articles, pyrotechnic for technical purposes - 1.4G 0432 Articles, pyrotechnic for technical purposes - 1.4S

HAZARD CLASS 1 IDENTIFICATION NUMBERS 0433 Powder cake, wetted or Powder paste, wetted with not less than 17 percent alcohol by mass - 1.1C 0434 Projectiles, with burster or expelling charge - 1.2G 0435 Projectiles, with burster or expelling charge - 1.4G 0436 Rockets, with expelling charge - 1.2C 0437 Rockets, with expelling charge - 1.3C 0438 Rockets, with expelling charge - 1.4C 0439 Charges, shaped, commercial without detonator - 1.2D 0440 Charges, shaped, commercial without detonator - 1.4D 0441 Charges, shaped, commercial without detonator - 1.4S 0442 Charges, explosive, commercial without detonator - 1.1D 0443 Charges, explosive, commercial without detonator - 1.2D 0444 Charges, explosive, commercial without detonator - 1.4D 0445 Charges, explosive, commercial without detonator - 1.4S 0446 Cases, combustible, empty, without primer - 1.4C 0447 Cases, combustible, empty, without primer - 1.3C 0448 5-Mercaptotetrazol-1-acetic acid - 1.4C 0449 Torpedoes, liquid fueled, with or without bursting charge - 1.1J 0450 Torpedoes, liquid fueled, with inert head - 1.3J 0451 Torpedoes with bursting charge - 1.1D 0452 Grenades, practice, hand or rifle - 1.4G 0453 Rockets, line-throwing - 1.4G 0454 Igniters - 1.4S 0455 Detonators, non-electric for blasting - 1.4S 0456 Detonators, electric for blasting - 1.4S 0457 Charges, bursting, plastics bonded - 1.1D 0458 Charges, bursting, plastics bonded - 1.2D 0459 Charges, bursting, plastics bonded - 1.4D 0460 Charges, bursting, plastics bonded - 1.4S 0461* Components, explosive train, n.o.s. - 1.1B 0462* Articles, explosive, n.o.s. - 1.1C 0463* Articles, explosive, n.o.s. - 1.1D 0464* Articles, explosive, n.o.s. - 1.1E

0465* Articles, explosive, n.o.s. - 1.1F

HAZARD CLASS 1 IDENTIFICATION NUMBERS
0466* Articles, explosive, n.o.s 1.2C
0467* Articles, explosive, n.o.s 1.2D
0468* Articles, explosive, n.o.s 1.2E
0469* Articles, explosive, n.o.s 1.2F
0470* Articles, explosive, n.o.s 1.3C
0471* Articles, explosive, n.o.s 1.4E
0472* Articles, explosive, n.o.s 1.4F
0473* Substances, explosive, n.o.s 1.1A
0474* Substances, explosive, n.o.s 1.1C
0475* Substances, explosive, n.o.s 1.1D
0476* Substances, explosive, n.o.s 1.1G
0477* Substances, explosive, n.o.s 1.3C
0478* Substances, explosive, n.o.s 1.3G
0479* Substances, explosive, n.o.s 1.4C
0480* Substances, explosive, n.o.s 1.4D
0481* Substances, explosive, n.o.s 1.4S
0482* Substances, explosive, very insensitive, n.o.s., or Substances, EVI, n.o.s 1.5D
0483 Cyclotrimethylenetrinitramine, desensitized or Cyclonite, desensitized or Hexogen, desensitized or RDX, desensitized - 1.1D
0484 Cyclotetramethylenetetranitramine, desensitized or Octogen, desensitized or HMX, desensitized - 1.1D
0485* Substances, explosive, n.o.s 1.4G
0486 Articles, explosive, extremely insensitive or Articles, EEI - 1.6N
0487 Signals, smoke - 1.3G
0488 Ammunition, practice - 1.3G
0489 Dinitroglycoluril or Dingu - 1.1D
0490 Nitrotriazolone or NTO - 1.1D
0491* Charges, propelling - 1.4C
0492 Signals, railway track, explosive - 1.3G
0493 Signals, railway track, explosive - 1.4G
0494 Jet perforating guns, charged, oil well, without detonator - 1.4D
0495* Propellant, liquid - 1.3C
0496 Octonal - 1.1D
0497* Propellant, liquid - 1.1C
0498* Propellant, solid - 1.1C

HAZARD CLASS 1 IDENTIFICATION NUMBERS

0500 Detonator assemblies, non-electric, for blasting - 1.4S * An asterisk appearing after the UN Serial Number identifies hazardous material PSNs

that, unless otherwise excepted, have one or more technical names which must be entered in parenthesis, on documentation and package marking, in association with the basic description.

The following is a list of Hazard Class 1 NA Identification Numbers, Proper Shipping Names and HD with CG. These PSNs are appropriate for describing materials for domestic transportation but may be inappropriate for international transportation under the provisions of international regulations (e.g., IMO, ICAO). An alternate PSN may be selected when either domestic or international transportation is involved.

NA PROPER SHIPPING NAME - HD with CG

0124 Jet perforating guns, charged oil well, with detonator - 1.1D

0276 Model rocket motor - 1.4C

0499* Propellant, solid - 1.3C

0323 Model rocket motor - 1.4S

0331 Ammonium nitrate-fuel oil mixture containing only prilled ammonium nitrate and fuel oil - 1.5D

0349 Grenades, empty primed - 1.4S 0412 Explosive pest control devices - 1.4E

0337 Toy Caps - 1.4S

0473 Barium styphnate- 1.1A

0473 Lead mononitroresorcinate - 1.1A

0494 Jet perforating guns, charged oil well, with detonator - 1.4D

* An asterisk appearing after the NA Serial Number identifies hazardous material PSNs that, unless otherwise excepted, have one or more technical names which must be entered in parentheses on documentation and package marking in association with the basic description.

The following is a list of Non-Hazard Class 1 UN Identification Numbers, Proper Shipping Names and HD for entries in this publication and associated components.

UN PROPER SHIPPING NAME - HD

1046 Helium, compressed - 2.2

1066 Nitrogen, compressed - 2.2

1067 Dinitrogen tetroxide - 2.3

1072 Oxygen, compressed - 2.2

1078* Refrigerent gases, n.o.s. -2.2

1244 Methylhydrazine - 6.1

1325* Flammable solids, organic, n.o.s. - 4.1

1360 Calcium phosphide - 4.3

HAZARD CLASS 1 IDENTIFICATION NUMBERS 1381 Phosphorus, white dry or Phosphorus, white, under water or Phosphorus, white, in solution or Phosphorus, yellow dry or Phosphorus, yellow, under water or Phosphorus, yellow, in solution - 4.2 1495 Sodium chlorate - 5.1 1693* Tear gas substances, liquid, n.o.s. or Tear gas substances, solid, n.o.s. - 6.1 1697 Chloroacetophenone (CN), liquid - 6.1 1697 Chloroacetophenone (CN), solid - 6.1 1814 Potassium hydroxide, solution - 8 1950 Aerosols, flammable, (each not exceeding 1 L capacity) - 2.1 1993* Flammable liquids, n.o.s. - 3. 2016* Ammunition, toxic, nonexplosive, without burster or expelling charge, non-fuzed -6.1 2017 Ammunition, tear-producing, non-explosive, without burster or expelling charge, non-fuzed - 6.1 2794 Batteries, wet, filled with acid, electric storage - 8 2795 Batteries, wet, filled with alkali, electric storage - 8 2796 Battery fluid, acid - 8 2797 Battery fluid, alkali - 8 2805 Lithium hydride, fused solid - 4.3 2983 Ethylene oxide and proplene oxide mixtures, with not more than 30 percent ethylene oxide - 3 3090 Lithium battery - 9 * An asterisk appearing after the UN Serial Number identifies hazardous PSNs that, unless otherwise excepted, have one or more technical names which must be entered in parentheses on documentation and package marking in association with the basic description.